



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

NOV 05 2013

Dan Lebiedz
Project Executive
Lee Kennedy Company, Inc.
122 Quincy shore Drive
Quincy, MA 02171

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Seaport Square - Parcel A, site located at 70 Sleeper Street, South Boston,
MA 02210, Suffolk County; Authorization # MAG910600

Dear Mr. Lebiedz:

Based on the review of a Notice of Intent (NOI) submitted by Sandhya N. Potana from Haley & Aldrich, on behalf of FPC Hotel LLC, for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: <http://www.epa.gov/region1/npdes/mass.html#dgp>.

Please note the enclosed checklist includes parameters you have marked “Believed Present.”

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. With the absence of dilution of freshwater into tidal water, EPA determined that the Dilution Factor Range (DFR) for any parameter discharge at this site is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limit for iron of 1,000 ug/L, is required to achieve permit compliance at your site.

Finally, please note the checklist of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on December 31, 2014. You are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,



Thelma Murphy, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Paul Canavan, BWSC
Sandhaya N. Potana, Haley & Aldrich, Inc.

**2010 Remediation General Permit
Summary of Monitoring Parameters^[1]**

NPDES Authorization Number:	MAG910600
Authorization Issued:	October, 2013
Facility/Site Name:	Seaport Square - Parcel A
Facility/Site Address:	70 Sleeper Street, South Boston, MA 02210, Suffolk County Email address of owner: dleatherwood.com – David Letherwood
Legal Name of Operator:	Lee Kennedy Co.
Operator contact name, title, and Address:	122 Quincy Shore Drive, Quincy, MA 02171 Email: dlebiedz@leekennedy.com
Estimated date of Completion:	December 31, 2014
Category and Sub-Category:	Contaminated Construction Dewatering. Subcategory A. General Urban Fill Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Fort Point Channel

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing ** Me#160.2/ML5ug/L
	2. Total Residual Chlorine (TRC) ¹	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) ^{2, 3}	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 10ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	14. Naphthalene ⁵	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
✓	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8,9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 100 ug/L

	Metal Parameters	Total Recoverable MA/Metal Limit $H^{10} = 50 \text{ mg/l CaCO}_3$, Units = ug/l^(11/12)	Minimum level=ML	
			Saltwater Limits	
	39. Antimony	5.6	ML	10
	40. Arsenic **	36	ML	20
	41. Cadmium **	8.9	ML	10
	42. Chromium III (trivalent) **	100	ML	15
	43. Chromium VI (hexavalent) **	50.3	ML	10
	44. Copper **	3.7	ML	15
	45. Lead **	8.5	ML	20
	46. Mercury **	1.1	ML	02
	47. Nickel **	8.2	ML	20
	48. Selenium **	71	ML	20
	49. Silver	2.2	ML	10
	50. Zinc **	85.6	ML	15
✓	51. Iron	1,000	ML	20

	Other Parameters	Limit
✓	52. Instantaneous Flow	Site specific in CFS
✓	53. Total Flow	Site specific in CFS
	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab ¹³
✓	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab ¹³
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab ¹⁴
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab ¹⁴
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab ¹⁴
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab ¹⁴
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab ¹⁴
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab ¹⁴
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab ¹⁴
	64. Maximum Change in Temperature in MA –Any Class SB water body - October to June	4°F; 1/Month/Grab ¹⁴

Footnotes:

¹ Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹ Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.

¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

¹³ pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹⁴ Temperature sampling per Method 170.1

Haley & Aldrich, Inc.
465 Medford St.
Suite 2200
Boston, MA 02129-1400

Tel: 617.886.7400
Fax: 617.886.7600
HaleyAldrich.com



24 October 2013
File No. 34099-120

US Environmental Protection Agency – Region 1
Industrial NPDES Permits (CIP)
5 Post Office Square
Mail Code OEP06-4
Boston, Massachusetts, 02109-3912

Attention: Ms. Shelly Puleo

Subject: Notice of Intent (NOI) for NPDES Dewatering General Permit
Temporary Construction Dewatering
Seaport Square Parcel A
70 Sleeper Street
Boston, Massachusetts
RTN 3-28572

Dear Ms. Puleo:

On behalf of our client, FPC Hotel LLC, and in accordance with the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) in Massachusetts, MAG910000, this letter submits a Notice of Intent (NOI) and the applicable documentation as required by the US Environmental Protection Agency (EPA) for temporary construction site dewatering under the RGP.

The site is located at 70 Sleeper Street in South Boston, Massachusetts and currently consists of an asphalt-paved parking lot, approximately 17,000 square feet in size. Figure 1 depicts project locus. As shown on Figure 2, the site is bordered by Seaport Boulevard to the south, Sleeper Street to the east, Northern Avenue to the north, beyond which is the John Joseph Moakley US Courthouse Building, and a restaurant building (Barking Crab) located on a wooden pier to the west, beyond which is the Fort Point Channel, as shown on Figure 2, Site and Subsurface Exploration Location Plan.

SITE HISTORY

The site is located in the former South Boston tidal flats and was filled in 1870s in conjunction with the construction of Fan Pier to provide waterfront railroad access. Information from the book *Gaining Ground: A History of Landmaking in Boston* and Sanborn Maps of the site area from the period 1899 through 1990 were reviewed to evaluate likely past historical and more recent uses of the site.

In *Gaining Ground*, the property is noted as being part of the “25-acre lot” area of flats, which was located at the intersection of Fort Point channel and the harbor. This area was purchased by the Boston, Hartford & Erie railroad company from the Boston Wharf Company in 1869. However, due to the ensuing bankruptcy of BH&E, the Boston Wharf Company foreclosed on this parcel and regained



control of the land in 1871. In an agreement signed in conjunction with the Boston Wharf Company and others in 1873, the Board of Harbor Commissioners agreed to build seawalls around and fill the 25-acre lot with dredge material from the main channel and three feet of gravel at the ground surface. Filling of the area began in 1873 and was completed in 1878. According to *Gaining Ground*, the site was filled with clay dredged from the harbor and covered by gravel from a site in Readville, Massachusetts. In 1878 the land commissioners of Massachusetts rented the 25-acre lot to the New York & New England Railroad, and then the State sold the parcel outright to the railroad company in 1880.

The Sanborn Map from 1899 indicates that the site continued to exist as part of the New York & New England railroad terminal grounds. The Sanborn Map from 1923 shows that Sleeper Street had been created, and that the rail yards were owned by the New York, New Haven, and Hartford (NYNH&H) railroad company. By 1950 a “freight house” had been constructed at the western end of the NYNH&H rail yard, occupying a majority of the site, and remained in place at least until 1964 according to Sanborn Maps of those dates. The Sanborn Map from 1990 indicates that at some point since 1964, the rail yard and freight warehouse had been removed. The site was used as a surface parking lot until recently. Concrete curbs observed to be present at the site may be remnants from when the site was occupied by the warehouse building or from the reconstruction of Northern Avenue during the 1990s.

CURRENT SITE CONDITIONS

The site currently consists of an asphalt-paved parking lot, approximately 17,000 square feet in size. The site is relatively level, with ground surface elevations ranging from El. 18.5 at the northern property limit to about EL. 16.5 Boston City Base (BCB) at the southern property limit. Grades at the southeast corner of the site are elevated slightly at about EL. 20 with a paved berm at the perimeter of the site to match adjacent sidewalk grades. No structures currently occupy the site with the exception of a parking attendant’s booth and a sheltered automated payment kiosk.

PROPOSED CONSTRUCTION

The proposed construction will consist of an approximately 16,000 square foot, 6-story hotel. Current design includes ground floor level at approximately EL. 18. One level of below-grade space below a portion of the proposed building footprint is planned, with the lowest level slab finishing at a depth of 11 feet below ground surface (EL. 7).

REGULATORY BACKGROUND

The subject site is an MCP Disposal Site associated with RTN 3-28572. A Class B-1 Response Action Outcome (RAO) statement was submitted to MassDEP for the site in May 2010. A Class B-1 RAO is applicable where remedial actions have not been conducted at the site because a level of ‘No Significant Risk’ exists and no Activity and Use Limitation is necessary to ensure the existence or maintenance of a level of ‘No Significant Risk’. Accordingly, soil management during the proposed construction at the subject site will be conducted as a Post-RAO response action under the MCP at 310 CMR 40.1067(3),

and except for off-site soil disposal documentation (MSRs and BOLs), MCP submittals (e.g. RAM Plan) are not required.

GROUNDWATER SAMPLING AND ANALYSIS

In support of the NOI, Haley & Aldrich collected one unfiltered groundwater sample and one field filtered groundwater sample from observation well HA-A4(OW) on 14 and 15 August 2013. (The samples were collected on consecutive days due to lack of sufficient recharge). The collected groundwater samples were submitted to Alpha Analytical, Inc. of Westborough, Massachusetts (Alpha Analytical), a DEP certified laboratory for analysis for NPDES permit parameters including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total and dissolved metals, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), Total Suspended Solids (TSS), chloride, total cyanide, total phenolics, and total residual chlorine. The analytical results for the groundwater samples were either not detected above the laboratory detection limit or were below the applicable MCP RCGW-2 Reportable Concentration. The results of water quality testing conducted for this NOI are summarized in Table I. The location of the observation well is shown on Figure 2.

MANAGEMENT OF DEWATERING EFFLUENT

Prior to discharge, collected water will be routed through a sedimentation tank with bag filters, to remove suspended solids and un-dissolved chemical constituents. Supplemental pretreatment is anticipated to be required to meet discharge criteria as shown in the Proposed Treatment System Schematic included in Figure 3. Supplemental pretreatment is anticipated to remove iron from the water. Construction dewatering under this RGP NOI will include piping and discharging to Boston Water and Sewer Commission storm drains near the site. The storm drains travel to the west of the site, ultimately discharging into Fort Point Channel. The proposed discharge route is shown on Figure 3.

During construction, it will be necessary to perform temporary dewatering to control surface water runoff from precipitation, groundwater seepage and construction-generated water to enable construction in-the-dry. Construction and construction dewatering activities are currently anticipated to begin as early as November 2013. On average, we estimate effluent discharge rates of about 40 to 50 gallons per minute (gpm) or less, with occasional peak flows of approximately 100 gpm during significant precipitation events. Temporary dewatering will be conducted from sumps located in excavations.

DISCHARGE START DATE AND LENGTH OF DISCHARGE

Site work and associated construction dewatering is currently anticipated to begin in November 2013 and is estimated to take up to 12 months to complete. Dewatering activities during below-grade construction are anticipated to be periodic and intermittent.

DILUTION FACTOR APPLICATION FOR METALS

A Dilution Factor (DF) was calculated for the detected levels of total metals greater than the applicable effluent limits. The DF is applicable to iron, and the calculated DF was used to find the appropriate Dilution Range concentrations for these metals. The DF was calculated using the following equation:

$$DF = (Q_d + Q_s)/Q_d$$

where Q_d is the maximum discharge flow rate, assumed to be 100 gallons per minute (GPM) or approximately 0.223 cubic feet per second (cfs), and Q_s is the receiving water flow rate, minimum for 7 consecutive days with a recurrence interval of 10 years. Testing of groundwater at the site indicated that compounds were either not detected above the laboratory detection limit and/or were below the applicable MCP RCGW-2 Criteria. Based on our conversation with EPA, the Dilution Factor for discharge of metals to Fort Point Channel is in the 1 to 5 range.

APPENDICES

The completed "Suggested Notice of Intent" (NOI) form as provided in the RGP is enclosed in Appendix A. The site owner is FPC Hotel LLC. The site operator is Lee Kennedy Co. Haley & Aldrich will monitor the Contractor's dewatering activities on behalf of FPC Hotel LLC. In accordance with the requirements for this NOI submission, Lee Kennedy Co as the operator is listed as permittee for this NPDES RGP, and therefore has signed the NOI form.

A Best Management Practices Plan (BMPP), which outlines the proposed discharge operations covered under the RGP, is included in Appendix B. Appendices C and D include Endangered Species Act and National Register of Historic Places Documentation, respectively. Appendix E provides the BWSC Permit Application to be submitted separately to the Boston Water and Sewer Commission. A copy of the groundwater testing laboratory data report for samples obtained by Haley & Aldrich is provided in Appendix F.

CLOSING

Thank you very much for your consideration of this NOI. Please feel free to contact us should you wish to discuss the information contained herein or if you need additional information.

Sincerely yours,
HALEY & ALDRICH, INC.

P. Sandhya
Sandhya N. Potana
Assistant Staff Manager

Elliot I. Steinberg
Elliot I. Steinberg, P.E., LSP
Brownfields Program Manager | Vice President

Attachments:

Table I – Summary of Groundwater Quality Data

24 October 2013

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Figure 1 – Site Locus

Figure 2 – Site and Subsurface Exploration Location Plan

Figure 3 – Proposed Dewatering Effluent Discharge Route

Figure 4 – Proposed Treatment System Schematic

Appendix A – Notice of Intent (NOI) for Remediation General Permit (RGP)

Appendix B – Best Management Practices Plan (BMPP)

Appendix C – Endangered Species Act Documentation

Appendix D – National Register of Historic Places and Massachusetts Historical Commission Documentation

Appendix E – Copy of BWSC Permit Application

Appendix F – Laboratory Data Reports

c: FPC Hotel LLC; Attn: David Leatherwood; Yanni Tsipis

G:\34099\Parcel A\120- Final Design\NPDES RGP Permit\2013-1022-HAI- Parcel A NPDES RGP NOI.doc

Table I

Summary of Groundwater Quality Data

Seaport Square - Parcel A

70 Sleeper Street

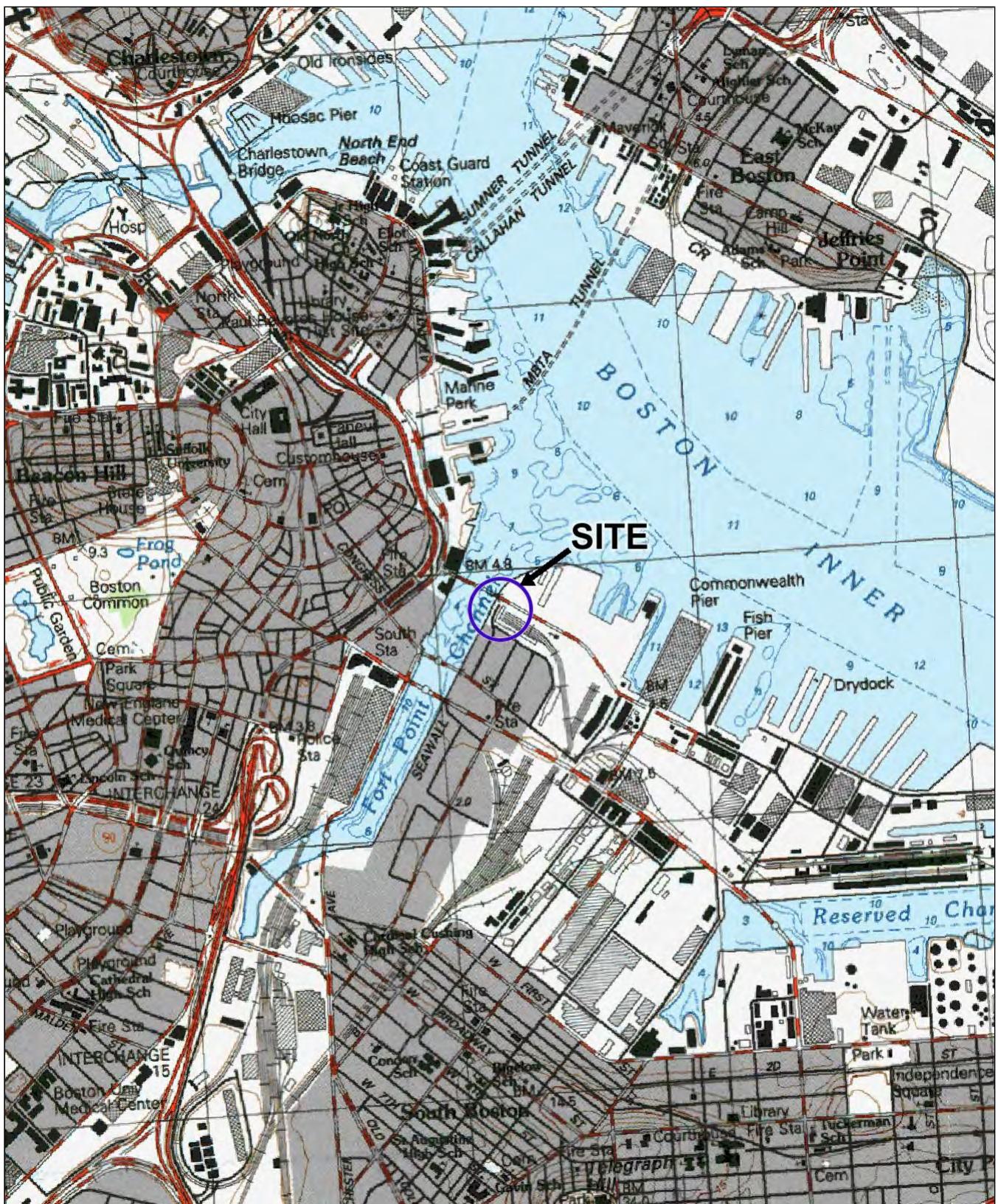
Boston, MA

File No. 34099-120

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS NUMBER	MCP RCGW-2 Reportable Concentration (ug/l)	HA-A4 (OW) 8/14/2013 L1315768-01, R1	HA-A4 (OW) 8/15/2013 L1315924-01
VOCs by GC/MS (ug/l)				
Acetone	67-64-1	50000	27	-
Total VOCs	NA	NA	27	-
VOCs by GC/MS-SIM (ug/l)				
1,4-Dioxane	123-91-1	6000	ND(1.5)	-
SVOCs by GC/MS (ug/l)				
Total SVOCs	NA	ND	-	ND
SVOCs by GC/MS-SIM (ug/l)				
Total SVOCs	NA	NA	-	ND
Total Metals (ug/l)				
Antimony, Total	7440-36-0	8000	-	ND(5)
Arsenic, Total	7440-38-2	900	-	10.77
Cadmium, Total	7440-43-9	4	-	ND(1)
Chromium, Total	7440-47-3	300	-	ND(5)
Copper, Total	7440-50-8	100000	-	ND(5)
Iron, Total	7439-89-6	-	-	8500
Lead, Total	7439-92-1	10	-	ND(2.5)
Mercury, Total	7439-97-6	20	-	ND(0.1)
Nickel, Total	7440-02-0	200	-	9.8
Selenium, Total	7782-49-2	100	-	ND(25)
Silver, Total	7440-22-4	7	-	ND(2)
Zinc, Total	7440-66-6	900	-	ND(50)
Dissolved Metals (ug/l)				
Antimony, Dissolved	7440-36-0	8000	-	ND(5)
Arsenic, Dissolved	7440-38-2	900	-	ND(5)
Cadmium, Dissolved	7440-43-9	4	-	ND(1)
Chromium, Dissolved	7440-47-3	300	-	ND(5)
Copper, Dissolved	7440-50-8	100000	-	ND(5)
Iron, Dissolved	7439-89-6	-	-	2200
Lead, Dissolved	7439-92-1	10	-	ND(2.5)
Mercury, Dissolved	7439-97-6	20	-	ND(0.1)
Nickel, Dissolved	7440-02-0	200	-	ND(2.5)
Selenium, Dissolved	7782-49-2	100	-	ND(25)
Silver, Dissolved	7440-22-4	7	-	ND(2)
Zinc, Dissolved	7440-66-6	900	-	ND(50)
PCBs (ug/l)				
Aroclor 1016	12674-11-2	5	-	ND(0.125)
Aroclor 1221	11104-28-2	5	-	ND(0.125)
Aroclor 1232	11141-16-5	5	-	ND(0.125)
Aroclor 1242	53469-21-9	5	-	ND(0.125)
Aroclor 1248	12672-29-6	5	-	ND(0.125)
Aroclor 1254	11097-69-1	5	-	ND(0.125)
Aroclor 1260	11096-82-5	5	-	ND(0.1)
Total PCBs	NA	NA	-	ND
General Chemistry (ug/l)				
Solids, Total Suspended	NONE	-	-	110000
Cyanide, Total	57-12-5	30	ND(2.5)	-
Chlorine, Total Residual	NONE	-	ND(10)	-
TPH	NONE	5000	-	ND(2000)
Phenolics, Total	NONE	-	ND(15)	-
Chromium, Hexavalent	18540-29-9	300	ND(5)	-
Chloride	16887-00-6	-	2110000	-
Pesticides (ug/l)				
1,2-Dibromoethane	106-93-4	2	ND(0.005)	-

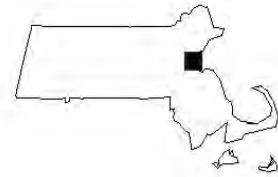
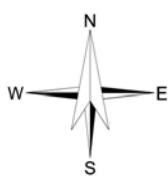
NOTES:

- This table includes only compounds detected on the dates indicated, except for metals and PCBs.
- Bold values indicate an exceedance of RCGW-2 criteria.
- Bold ND values indicate that one-half the laboratory reporting limit exceeds the RCGW-2 criteria.
- Abbreviations: "NA" = not applicable; "—" = not analyzed
- ND(2.5) indicates not detected, number in parentheses is one-half the laboratory reporting limit.



SITE COORDINATES: 42°21'13"N 71°25'4"W

HALEY & ALDRICH
SEAPORT SQUARE - PARCEL A
70 SLEEPER STREET
SOUTH BOSTON, MASSACHUSETTS



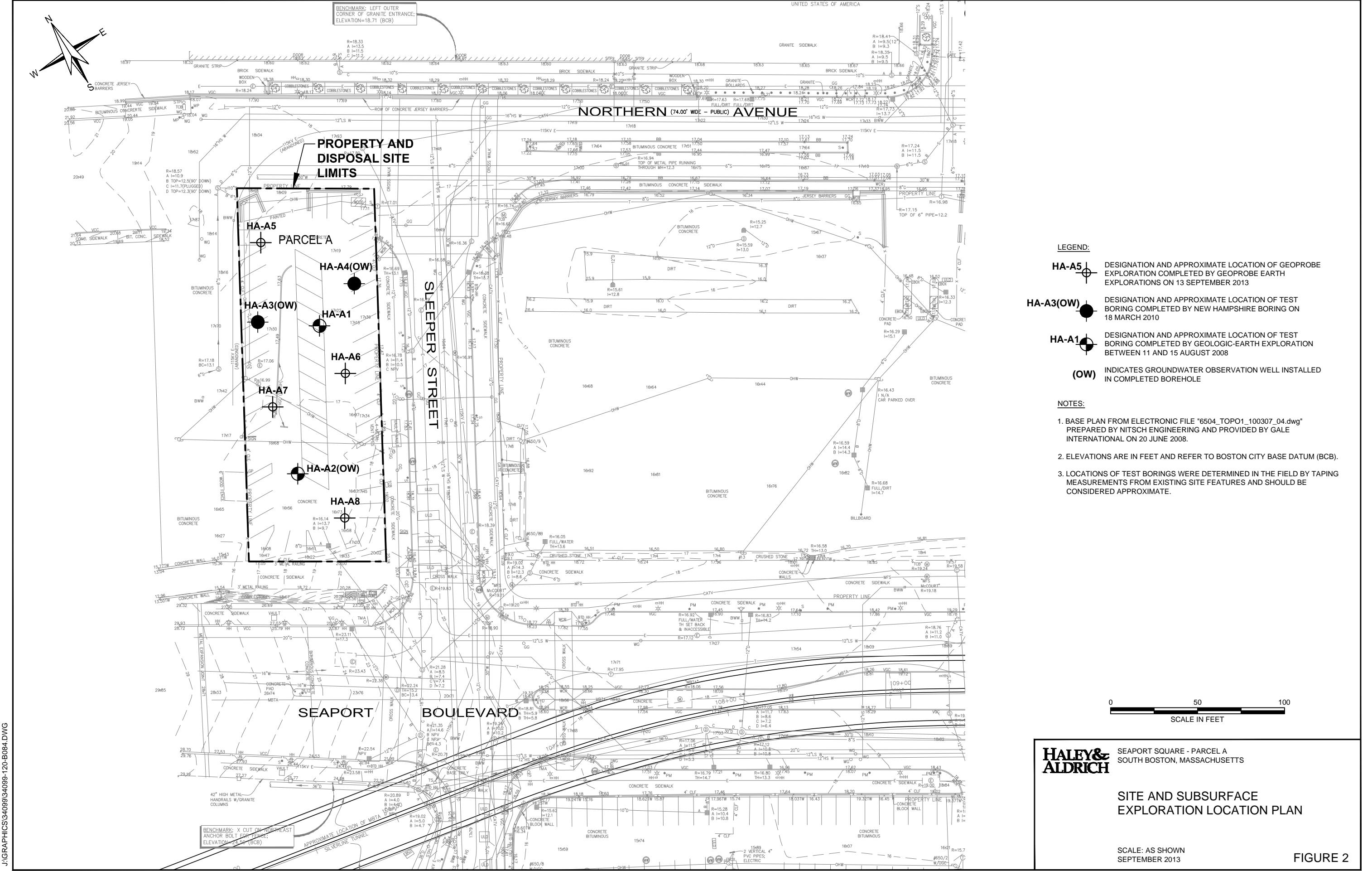


FIGURE 2

**PARCEL A
SEAPORT SQUARE**

66 SLEEPER STREET
BOSTON MA, 02210

Norwich Partners

Nitsch Engineering

www.nitscheng.com Civil Engineering
2 Center Plaza, Suite 400 Land Surveying
Boston, MA 02108 Transportation Engineering
T: (617) 338-0933 Sustainable Site Consulting
F: (617) 338-6472 Planning
GS



HITEC ADD Inc

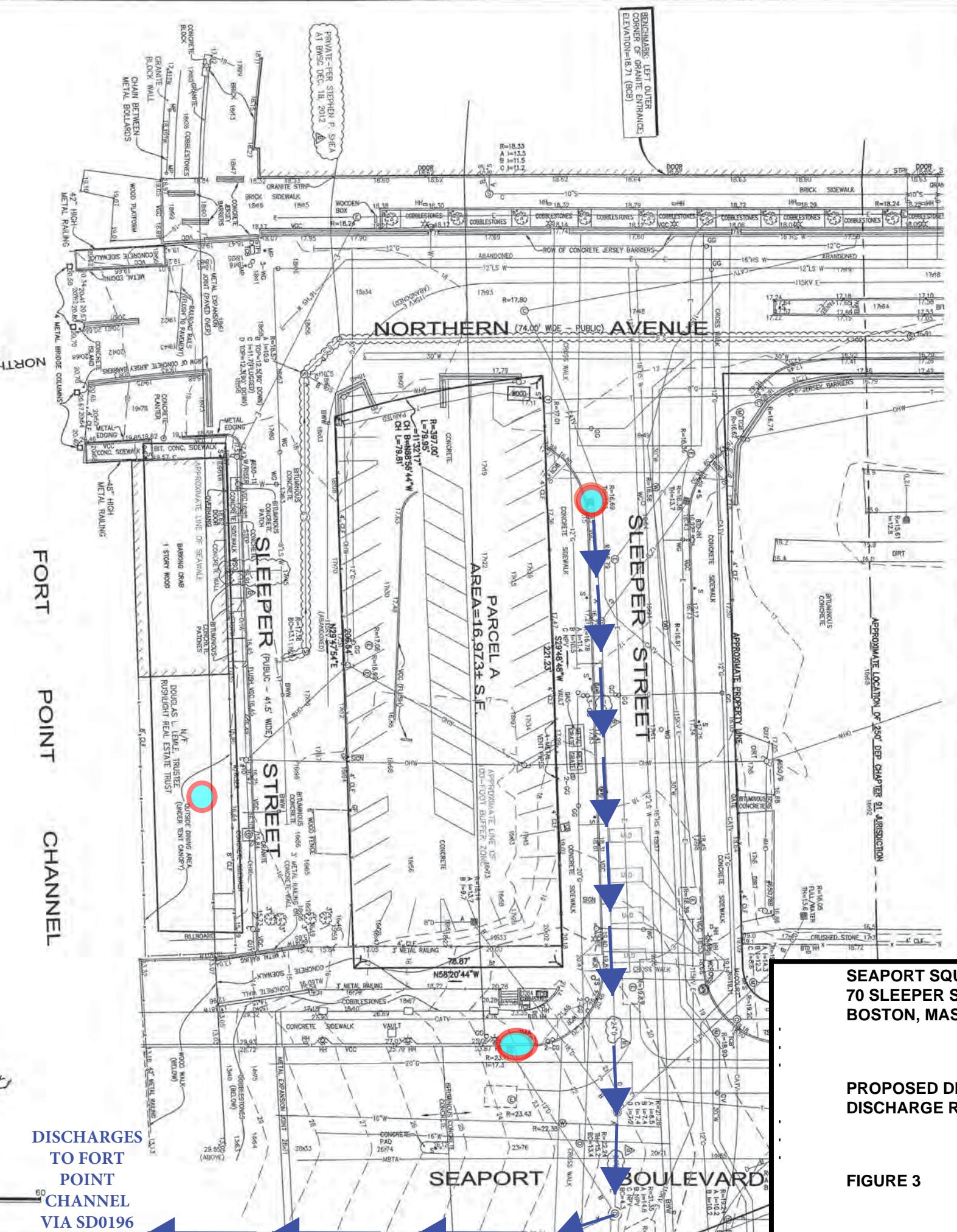
311 SUMMER STREET BOSTON, MA 02110 617.234.3100

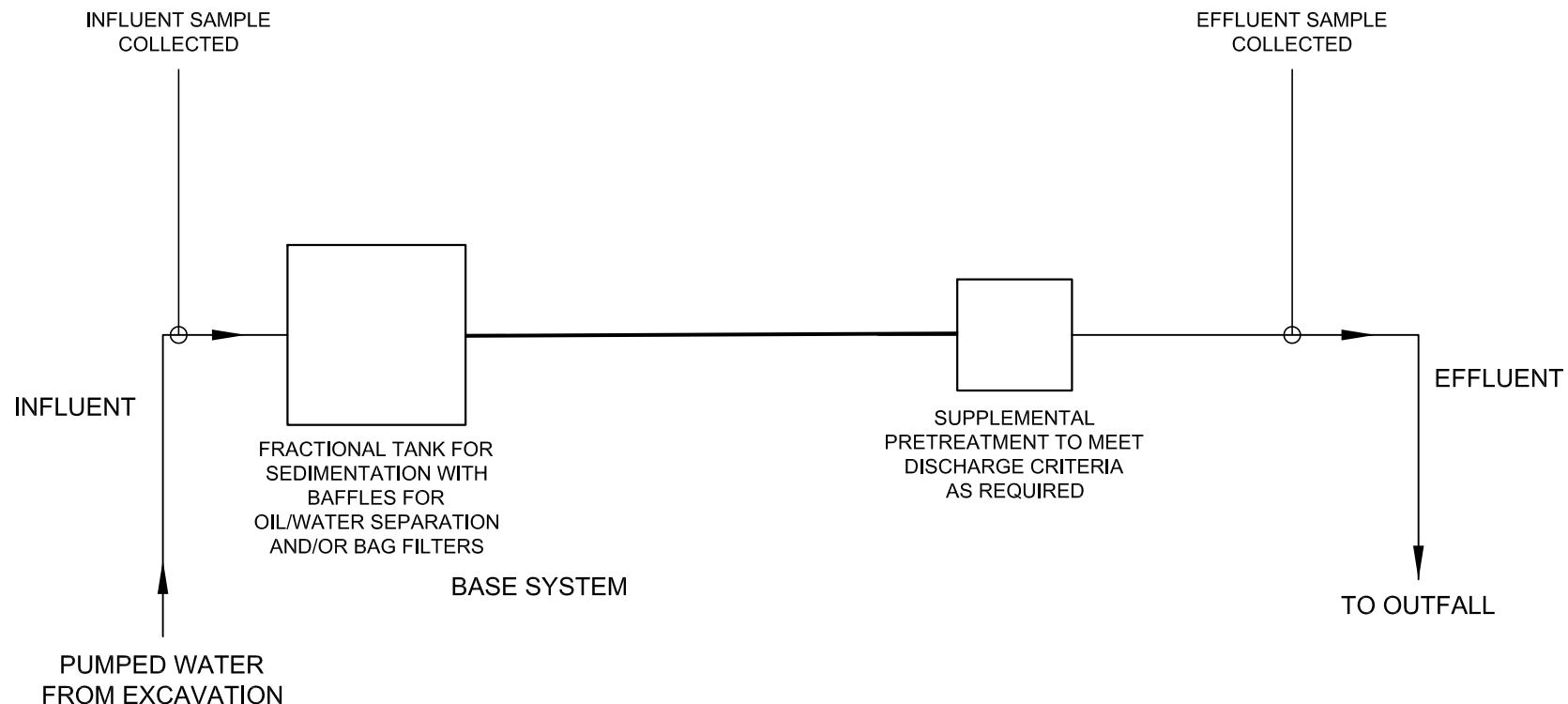
ISSUANCES		
No.	Description	Date
100% DD	04/17/2013	
PERMIT SET	06/24/2013	

**SEAPORT SQUARE - PARCEL A
70 SLEEPER STREET
BOSTON, MASSACHUSETTS**

**PROPOSED DEWATERING
DISCHARGE ROUTE**

FIGURE 3





LEGEND:

→ DIRECTION OF FLOW

NOTE:

1. DETAILS OF TREATMENT SYSTEM MAY VARY FROM SYSTEM INDICATED ABOVE. SPECIFIC MEANS AND METHODS OF TREATMENT TO BE SELECTED BY CONTRACTOR. WATER WILL BE TREATED TO MEET REQUIRED EFFLUENT STANDARDS.

**HALEY &
ALDRICH**

SEAPORT SQUARE - PARCEL A
70 SLEEPER STREET
SOUTH BOSTON, MASSACHUSETTS

PROPOSED
TREATMENT SYSTEM
SCHEMATIC

SCALE: NONE
OCTOBER 2013

FIGURE 3

Appendix A
Notice of Intent (NOI) for Remediation General Permit (RGP)

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General facility/site information. Please provide the following information about the site:

a) Name of facility/site :	Facility/site mailing address:		
Location of facility/site : longitude: _____ latitude: _____	Facility SIC code(s):	Street:	
b) Name of facility/site owner : FPC Hotel LLC	Town:		
Email address of facility/site owner:	State:	Zip:	County:
Telephone no. of facility/site owner :			
Fax no. of facility/site owner :	Owner is (check one): 1. Federal ____ 2. State/Tribal ____ 3. Private ____ 4. Other ____ if so, describe:		
Address of owner (if different from site):			
Street:			
Town:	State:	Zip:	County:
c) Legal name of operator :	Operator telephone no:		
	Operator fax no.:	Operator email:	
Operator contact name and title:			
Address of operator (if different from owner):	Street:		
Town:	State:	Zip:	County:

d) Check Y for "yes" or N for "no" for the following:

1. Has a prior NPDES permit exclusion been granted for the discharge? Y__ N__, if Y, number: _____
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Y__ N__, if Y, date and tracking #: _____
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y__ N__
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y__ N__

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y__ N__

If Y, please list:

1. site identification # assigned by the state of NH or MA: _____
2. permit or license # assigned: _____
3. state agency contact information: name, location, and telephone number: _____

f) Is the site/facility covered by any other EPA permit, including:

1. Multi-Sector General Permit? Y__ N__, if Y, number: _____
2. Final Dewatering General Permit? Y__ N__, if Y, number: _____
3. EPA Construction General Permit? Y__ N__, if Y, number: _____
4. Individual NPDES permit? Y__ N__, if Y, number: _____
5. any other water quality related individual or general permit? Y__ N__, if Y, number: _____

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y__ N__

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

<u>Activity Category</u>	<u>Activity Sub-Category</u>
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ____ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ____ C. Petroleum Sites with Additional Contamination ____
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ____ B. VOC Sites with Additional Contamination ____ C. Primarily Heavy Metal Sites ____
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ____ B. Known Contaminated Sites ____

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ____ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ____ C. Hydrostatic Testing of Pipelines and Tanks ____ D. Long-Term Remediation of Contaminated Sumps and Dikes ____ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ____
---------------------------------------	---

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
b) Provide the following information about each discharge:	
1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow _____ Is maximum flow a design value ? Y ____ N ____ Average flow (include units) _____ Is average flow a design value or estimate? _____
3) Latitude and longitude of each discharge within 100 feet: pt.1: lat. _____ long. _____ ; pt.2: lat. _____ long. _____ ; pt.3: lat. _____ long. _____ ; pt.4: lat. _____ long. _____ ; pt.5: lat. _____ long. _____ ; pt.6: lat. _____ long. _____ ; pt.7: lat. _____ long. _____ ; pt.8: lat. _____ long. _____ ; etc.	
4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ____ or seasonal ____? Is discharge ongoing? Y ____ N ____
c) Expected dates of discharge (mm/dd/yy): start _____ end _____	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)											
2. Total Residual Chlorine (TRC)											
3. Total Petroleum Hydrocarbons (TPH)											
4. Cyanide (CN)	57125										
5. Benzene (B)	71432										
6. Toluene (T)	108883										
7. Ethylbenzene (E)	100414										
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207										
9. Total BTEX ²	n/a										
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934										
11. Methyl-tert-Butyl Ether (MtBE)	1634044										
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650										

* Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

² BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

³ EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508										
14. Naphthalene	91203										
15. Carbon Tetrachloride	56235										
16. 1,2 Dichlorobenzene (o-DCB)	95501										
17. 1,3 Dichlorobenzene (m-DCB)	541731										
18. 1,4 Dichlorobenzene (p-DCB)	106467										
18a. Total dichlorobenzene											
19. 1,1 Dichloroethane (DCA)	75343										
20. 1,2 Dichloroethane (DCA)	107062										
21. 1,1 Dichloroethene (DCE)	75354										
22. cis-1,2 Dichloroethene (DCE)	156592										
23. Methylene Chloride	75092										
24. Tetrachloroethene (PCE)	127184										
25. 1,1,1 Trichloro-ethane (TCA)	71556										
26. 1,1,2 Trichloro-ethane (TCA)	79005										
27. Trichloroethene (TCE)	79016										

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014										
29. Acetone	67641										
30. 1,4 Dioxane	123911										
31. Total Phenols	108952										
32. Pentachlorophenol (PCP)	87865										
33. Total Phthalates (Phthalate esters) ⁴											
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817										
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)											
a. Benzo(a) Anthracene	56553										
b. Benzo(a) Pyrene	50328										
c. Benzo(b)Fluoranthene	205992										
d. Benzo(k)Fluoranthene	207089										
e. Chrysene	21801										
f. Dibenzo(a,h)anthracene	53703										
g. Indeno(1,2,3-cd) Pyrene	193395										
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)											

⁴The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329										
i. Acenaphthylene	208968										
j. Anthracene	120127										
k. Benzo(ghi) Perylene	191242										
l. Fluoranthene	206440										
m. Fluorene	86737										
n. Naphthalene	91203										
o. Phenanthrene	85018										
p. Pyrene	129000										
	85687; 84742; 117840; 84662; 131113; 117817.										
37. Total Polychlorinated Biphenyls (PCBs)											
38. Chloride	16887006										
39. Antimony	7440360										
40. Arsenic	7440382										
41. Cadmium	7440439										
42. Chromium III (trivalent)	16065831										
43. Chromium VI (hexavalent)	18540299										
44. Copper	7440508										
45. Lead	7439921										
46. Mercury	7439976										
47. Nickel	7440020										
48. Selenium	7782492										
49. Silver	7440224										
50. Zinc	7440666										
51. Iron	7439896										
Other (describe):											

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

<i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ____ N ____	If yes, which metals?
<i>Step 2:</i> For any metals which exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal: _____ DF: _____ Metal: _____ DF: _____ Metal: _____ DF: _____ Metal: _____ DF: _____ Etc.	Look up the limit calculated at the corresponding dilution factor in Appendix IV . Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ____ N ____ If Y, list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

- a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

--	--	--	--	--	--	--

b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	De-chlorination	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system:

Average flow rate of discharge _____ gpm Maximum flow rate of treatment system _____ gpm

Design flow rate of treatment system _____ gpm

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct to receiving water _____	Within facility (sewer) _____	Storm drain _____	Wetlands _____	Other (describe): _____
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:					
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.					
d) Provide the state water quality classification of the receiving water _____					
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ cfs Please attach any calculation sheets used to support stream flow and dilution calculations.					
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y _____ N _____ If yes, for which pollutant(s)? Fecal Coliform; PCBs in fish tissue					
Is there a final TMDL? Y _____ N _____ If yes, for which pollutant(s)? _____					

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?

A ____ B ____ C ____ D ____ E ____ F ____

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ____ N ____ Underway ____

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received? Y ____ N ____

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?

1 ____ 2 ____ 3 ____

f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.

7. Supplemental information.

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Seaport Square - Parcel A; OPERATOR - Lee Kennedy Co.

Operator signature:



Printed Name & Title: Dan Lebiedz

PROJECT EXECUTIVE

Date:

**Appendix B
Best Management Practices Plan (BMPP)**

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIATION GENERAL PERMIT
SEAPORT SQUARE – PARCEL A
70 SLEEPER STREET
BOSTON, MASSACHUSETTS**

Best Management Practices Plan

A Notice of Intent for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) in anticipation of temporary construction dewatering planned to occur at the 70 Sleeper Street project site located in South Boston, Massachusetts. This Best Management Practices Plan (BMPP) has been prepared as an Appendix to the RGP and will be posted at the site during the time period that temporary construction dewatering is occurring at the site.

Water Treatment and Management

Prior to discharge, collected water will be routed through sedimentation tank and bag filters (if needed), to remove suspended solids and un-dissolved chemical constituents. Construction dewatering under this RGP NOI will include piping and discharging to storm drains located within and near the site. The storm drains travel to the west of the site, ultimately discharging into Fort Point Channel. Dewatering effluent treatment may consist of bag filters, granular activated carbon (GAC), ion exchange, or precipitation, as required.

Discharge Monitoring and Compliance

Regular sampling and testing will be conducted at the influent to the system and the treated effluent as required by the RGP. This includes chemical testing required within the first week of discharging, and the monthly testing to be conducted through the end of the scheduled discharge.

Monitoring will include checking the condition of the treatment system, assessing the need for treatment system adjustments based on monitoring data, observing and recording daily flow rates and discharge quantities, and verifying the flow path of the discharged effluent.

The total monthly flow will be monitored by checking and documenting the flow through the flow meter to be installed on the system. Flow will be maintained below the “system design flow” by regularly monitoring flow and adjusting the amount of construction dewatering as needed.

Monthly monitoring reports will be compiled and maintained at the site.

System Maintenance

A number of methods will be used to minimize the potential for violations for the term of this permit. Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the sedimentation tanks, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues or unscheduled maintenance requirements.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIATION GENERAL PERMIT
SEAPORT SQUARE – PARCEL A
70 SLEEPER STREET
BOSTON, MASSACHUSETTS**

Employees who have direct or indirect responsibility for ensuring compliance with the RGP will be trained by the Operator.

Miscellaneous Items

The project specifications also include requirements for erosion control. Site security for the treatment system will be covered within the overall site security plan.

No adverse effects on designated uses of surrounding surface water bodies is anticipated. The nearest surface water body is the Fort Point Channel. Dewatering effluent will be pumped to a sedimentation tank, at a minimum, prior to discharge to the storm drains.

Management of Treatment System Materials

Dewatering effluent will be pumped directly to the treatment system from the excavation with use of hoses and sumps to minimize handling. The Contractor will establish staging areas for equipment or materials storage that may be possible sources of pollution away from any dewatering activities, to the extent practicable.

Sediment from the sedimentation tank used in the treatment system will be characterized and removed from the site to an appropriate receiving facility, in accordance with applicable laws and regulations. If used, granular activated carbon and/or ion exchange resin may be recycled and/or removed from the site to an appropriate receiving facility. Bag filters, if used, will be disposed of as necessary.

Appendix C
Endangered Species Act Documentation

MassDEP - Bureau of Waste Site Cleanup

Site Information: MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

SEAPORT SQUARE - PARCEL A
70 SLEEPER STREET BOSTON, MA
3-000028572

NAD83 UTM Meters:
5214116mN , -7909072mE (Zone: 18)
September 18, 2013

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: <http://www.mass.gov/mgis/>.



MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN

November 2010

Total Approximate Acreage: 268,000 acres

Approximate acreage and designation date follow ACEC names below.

Bourne Back River

(1,850 acres, 1989) Bourne

Canoe River Aquifer and Associated Areas (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

Cedar Swamp

(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley

(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed

(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor

(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog

(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

Golden Hills

(500 acres, 1987) Melrose, Saugus, and Wakefield

Great Marsh (originally designated as Parker River/Essex Bay)

(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed

(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed

(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

Hockomock Swamp

(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

Inner Cape Cod Bay

(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin

(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed

(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds

(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary

(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag

(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

Pleasant Bay

(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

Pocasset River

(160 acres, 1980) Bourne

Rumney Marshes

(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

Sandy Neck Barrier Beach System

(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin

(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit

(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

Three Mile River Watershed

(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River

(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay

(2,580 acres, 1979) Falmouth and Mashpee

Weir River

(950 acres, 1986) Cohasset, Hingham, and Hull

Wellfleet Harbor

(12,480 acres, 1989) Eastham, Truro, and Wellfleet

Weymouth Back River

(800 acres, 1982) Hingham and Weymouth

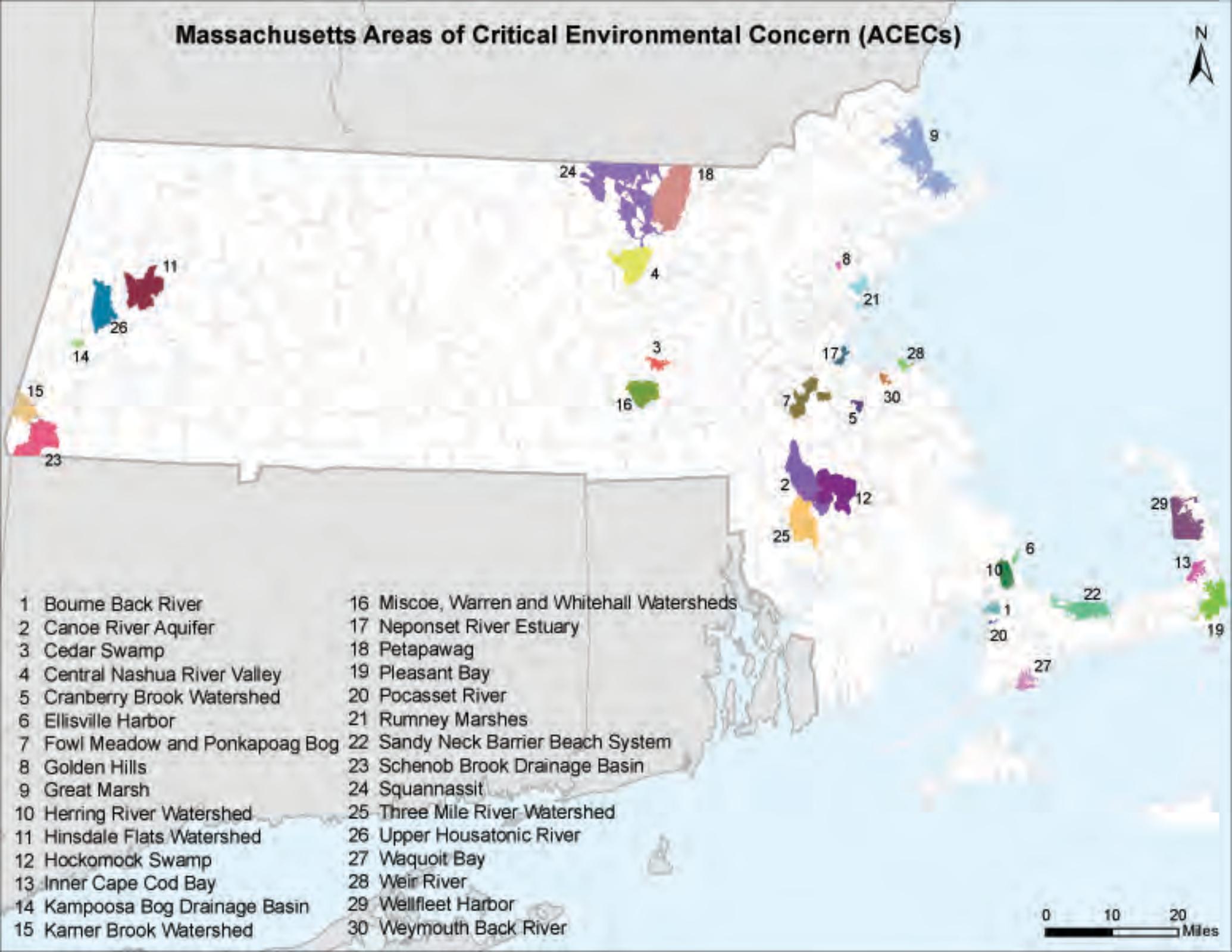
ACEC acreages above are based on MassGIS calculations and may differ from numbers originally presented in designation documents and other ACEC publications due to improvements in accuracy of GIS data and boundary clarifications. Listed acreages have been rounded to the nearest 50 or 10 depending on whether boundary clarification has occurred. For more information please see, <http://www.mass.gov/dcr/stewardship/acec/aboutMaps.htm>.

Towns with ACECs within their Boundaries

November 2010

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp	Quincy	Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Randolph	Neponset River Estuary
Chatham	Pleasant Bay	Raynham	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Revere	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Rowley	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Sandwich	Great Marsh
Dighton	Three Mile River Watershed	Saugus	Sandy Neck Barrier Beach System
Dunstable	Petapawag		Rumney Marshes
Eastham	Inner Cape Cod Bay	Sharon	Golden Hills
	Wellfleet Harbor		Canoe River Aquifer
Easton	Canoe River Aquifer	Sheffield	Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Shirley	Schenob Brook
Egremont	Karner Brook Watershed	Stockbridge	Squannassit
Essex	Great Marsh	Taunton	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay		Hockomock Swamp
Foxborough	Canoe River Aquifer	Truro	Canoe River Aquifer
Gloucester	Great Marsh	Townsend	Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall Watersheds	Tyngsborough	Wellfleet Harbor
Groton	Petapawag	Upton	Squannassit
	Squannassit		Petapawag
Harvard	Central Nashua River Valley		Miscoe-Warren-Whitehall Watersheds
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River		Upper Housatonic River
	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall Watersheds	Westwood	Fowl Meadow and Ponkapoag Bog
	Cedar Swamp	Weymouth	Weymouth Back River
Hull	Weir River	Winthrop	Rumney Marshes
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
	Upper Housatonic River		
Lenox	Upper Housatonic River		
Leominster	Central Nashua River Valley		
Lunenburg	Squannassit		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
Mashpee	Waquoit Bay		
Melrose	Golden Hills		
Milton	Fowl Meadow and Ponkapoag Bog		
	Neponset River Estuary		

Massachusetts Areas of Critical Environmental Concern (ACECs)



- 1 Bourne Back River
- 2 Canoe River Aquifer
- 3 Cedar Swamp
- 4 Central Nashua River Valley
- 5 Cranberry Brook Watershed
- 6 Ellisville Harbor
- 7 Fowl Meadow and Ponkapoag Bog
- 8 Golden Hills
- 9 Great Marsh
- 10 Herring River Watershed
- 11 Hinsdale Flats Watershed
- 12 Hockomock Swamp
- 13 Inner Cape Cod Bay
- 14 Kampoosa Bog Drainage Basin
- 15 Kerner Brook Watershed
- 16 Miscoe, Warren and Whitehall Watersheds
- 17 Neponset River Estuary
- 18 Petapawag
- 19 Pleasant Bay
- 20 Pocasset River
- 21 Rumney Marshes
- 22 Sandy Neck Barrier Beach System
- 23 Schenob Brook Drainage Basin
- 24 Squannassit
- 25 Three Mile River Watershed
- 26 Upper Housatonic River
- 27 Waquoit Bay
- 28 Weir River
- 29 Wellfleet Harbor
- 30 Weymouth Back River

0 10 20 Miles

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

- Eastern cougar and gray wolf are considered extirpated in Massachusetts.
- Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
- Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

The Official Website of the Department of Fish and Game (DFG)

Department of Fish and Game

Commissioner Mary B. Griffin

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MassWildlife

Massachusetts Division of Fisheries & Wildlife

Wayne F. MacCallum, Director



Natural Heritage & Endangered Species

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Rare Species by Town

The Natural Heritage & Endangered Species Program maintains a list of all documented MESA-listed species observations in the Commonwealth. Please select a town if you would like to see a table showing which listed species have been observed in that town. The selected town will also be highlighted on the map. Alternatively you can specify either the Common Name or Scientific Name of a species to see its distribution on the map and table showing the towns it has been observed in. Clicking on a column header in the table will sort the column. Clicking again on the same column heading will reverse the sort order.

The Town List and Species Viewer will be updated at regular intervals as new data is accepted and entered into the NHESP database.

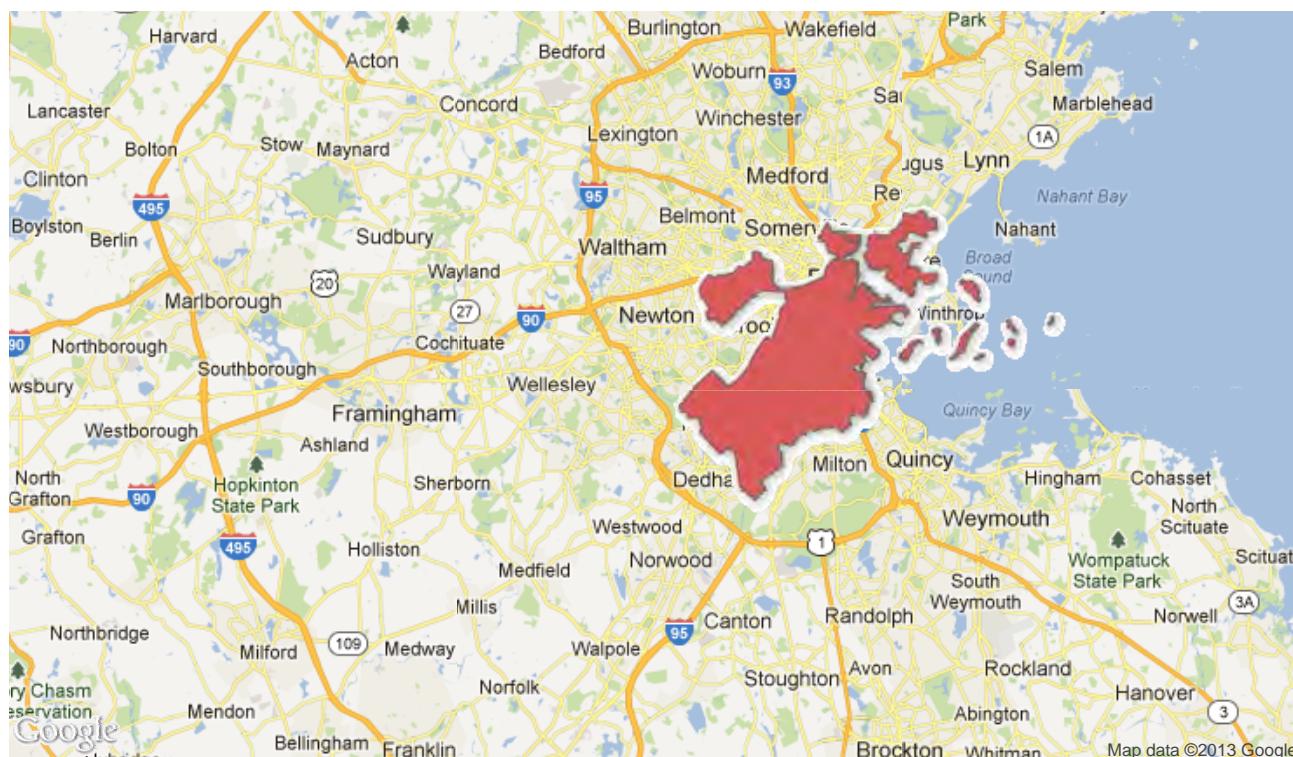
Town:
 BOSTON

or

Species (Common Name):

or

Species (Scientific Name):



Download data as [xls](#) or [csv](#) file.

Showing 1 to 46 of 46 entries

Search:

First	Previous	1	Next	Last
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Town	Scientific Name	Common Name	MESA Status	Most Recent Obs
BOSTON	<i>Abagrotis nerascalis</i>	Coastal Heathland Cutworm	SC	2001
BOSTON	<i>Accipiter striatus</i>	Sharp-shinned Hawk	E	1898
BOSTON	<i>Ageratina aromatica</i>	Lesser Snakeroot	SC	1896
BOSTON	<i>Ambystoma laterale</i>	Blue-spotted Salamander	SC	2011
BOSTON	<i>Ammodramus savannarum</i>	Grasshopper Sparrow	T	1993
BOSTON	<i>Apodrepanulatrix liberaria</i>	New Jersey Tea Inchworm	E	Historic
BOSTON	<i>Aristida purpurascens</i>	Purple Needlegrass	T	1800s
BOSTON	<i>Aristida tuberculosa</i>	Seabeach Needlegrass	T	1877
BOSTON	<i>Asclepias verticillata</i>	Linear-leaved Milkweed	T	1878
BOSTON	<i>Batrachoseps longicauda</i>	Upland Sandpiper	E	1993
BOSTON	<i>Boechera missouriensis</i>	Green Rock-cress	T	1930
BOSTON	<i>Carex striata</i>	Walter's Sedge	E	Historic
BOSTON	<i>Charadrius melanotos</i>	Piping Plover	T	2011
BOSTON	<i>Cicindela duodecimguttata</i>	Twelve-spotted Tiger Beetle	SC	1910
BOSTON	<i>Cicindela purpurea</i>	Cow Path Tiger Beetle	SC	1928
BOSTON	<i>Cicindela rufiventris hentzii</i>	Eastern Red-bellied Tiger Beetle	T	1927
BOSTON	<i>Desmodium cuspidatum</i>	Large-bracted Tick-trefoil	T	1896
BOSTON	<i>Eriophorum gracile</i>	Slender Cottongrass	T	1885
BOSTON	<i>Falco peregrinus</i>	Peregrine Falcon	E	2010
BOSTON	<i>Gasterosteus aculeatus</i>	Threespine Stickleback	T	2000
BOSTON	<i>Gavia immer</i>	Common Loon	SC	1824
BOSTON	<i>Houstonia longifolia</i>	Long-leaved Bluet	E	1918
BOSTON	<i>Liatris scariosa var. novae-angliae</i>	New England Blazing Star	SC	1933
BOSTON	<i>Ligumia nasuta</i>	Eastern Pondmussel	SC	1841
BOSTON	<i>Linum medium var. texanum</i>	Rigid Flax	T	1909
BOSTON	<i>Lycopus rubellus</i>	Gypsywort	E	1896
BOSTON	<i>Metarranthis apicaria</i>	Barrens Metarranthis	E	1934
BOSTON	<i>Myriophyllum alterniflorum</i>	Alternate-flowered Water-milfoil	E	Historic
BOSTON	<i>Ophioglossum pusillum</i>	Adder's-tongue Fern	T	1884
BOSTON	<i>Platanthera flava var. herbacea</i>	Pale Green Orchis	T	1908
BOSTON	<i>Pooecetes gramineus</i>	Vesper Sparrow	T	1985
BOSTON	<i>Pyrrhia aurantiago</i>	Orange Sallow Moth	SC	1988
BOSTON	<i>Ranunculus micranthus</i>	Tiny-flowered Buttercup	E	1891
BOSTON	<i>Rumex pallidus</i>	Seabeach Dock	T	1984
BOSTON	<i>Sanicula odorata</i>	Long-styled Sanicle	T	Historic
BOSTON	<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	T	1932
BOSTON	<i>Scirpus longii</i>	Long's Bulrush	T	1907
BOSTON	<i>Setaria parviflora</i>	Bristly Foxtail	SC	2001
BOSTON	<i>Somatochlora linearis</i>	Mocha Emerald	SC	2009
BOSTON	<i>Sterna hirundo</i>	Common Tern	SC	2010
BOSTON	<i>Sternula antillarum</i>	Least Tern	SC	2010
BOSTON	<i>Suaeda calceoliformis</i>	American Sea-blite	SC	1909
BOSTON	<i>Terrapene carolina</i>	Eastern Box Turtle	SC	1939
BOSTON	<i>Tyto alba</i>	Barn Owl	SC	1989
BOSTON	<i>Vermivora chrysoptera</i>	Golden-winged Warbler	E	Historic
BOSTON	<i>Viola brittoniana</i>	Britton's Violet	T	1909

Show 100 entries

[Hide Additional Info](#)Status

- E = Endangered • T = Threatened • SC = Special Concern

Most Recent Observation

This field represents the most recent observation of that species in a town. However, because they are rare, many MESA-listed species are difficult to detect even when they are present. Natural Heritage does not have the resources to be able to conduct methodical species surveys in each town on a regular basis. Therefore, the fact that the 'Most Recent Observation' recorded for a species may be several years old should not be interpreted as meaning that the species no longer occurs in a town. However, Natural Heritage regards records older than twenty-five years historic.

For more information about a particular species, view the list of [Natural Heritage Fact Sheets](#).

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Massachusetts Division of Fisheries and Wildlife, 1 Rabbit Hill Rd, Westborough, MA 01581

Tel: (508) 389-6300; Fax: (508) 389-7890

Natural Heritage & Endangered Species Program Tel: (508) 389-6360; Fax: (508) 389-7891



United States Department of the Interior

FISH AND WILDLIFE SERVICE



New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 7, 2013

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Mr. Brett Hillman of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

A handwritten signature in blue ink, appearing to read "T.R. Chapman".

Thomas R. Chapman
Supervisor
New England Field Office

Appendix D
National Register of Historic Places and
Massachusetts Historical Commission Documentation

Massachusetts Historical Commission

William Francis Galvin, Secretary of the Commonwealth

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The Massachusetts Cultural Resource Information System (MACRIS) allows you to search the Massachusetts Historical Commission database for information on historic properties and areas in the Commonwealth.

Users of the database should keep in mind that it does not include information on all historic properties and areas in Massachusetts, nor does it reflect all the information on file on historic properties and areas at the Massachusetts Historical Commission.

[Click here to begin your search of the MACRIS database.](#)



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Massachusetts Cultural Resource Information System

MACRIS

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Results

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PDF

Spreadsheet

Below are the results of your search, using the following search criteria:

Town(s): Boston

Place: South Boston

Street Name: Sleeper

Resource Type(s): Area, Building, Object, Structure, Burial Ground

For more information about this page and how to use it, [click here](#)

Inv. No.	Property Name	Street	Town	Year		
BOS.5561	Boston Wharf Company Building	15-21 Sleeper St	Boston	1911		
BOS.5562	Boston Wharf Company Building	29-31 Sleeper St	Boston	1915		
BOS.5563	Boston Wharf Company Building	35-37 Sleeper St	Boston	1911		
BOS.5564	United Shoe Machine Corporation	51 Sleeper St	Boston	1929		

4 Properties Found

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Massachusetts Cultural Resource Information System

MACRIS

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For more information about this page and how to use it, [click here.](#)

Inventory No:	BOS.5561
Historic Name:	Boston Wharf Company Building
Common Name:	
Address:	15-21 Sleeper St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	602669005-68
Year Constructed:	1911
Architect(s):	
Architectural Style(s):	Classical Revival
Use(s):	Other Industrial; Undetermined
Significance:	Architecture; Industry
Area(s):	 BOS.CX: Fort Point Channel District BOS.WZ: Fort Point Channel Historic District BOS.ZG: Fort Point Channel Landmark District <="">
Designation(s):	Local Historic District (12/9/2008); Nat'l Register District (9/10/2004)

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Inventory No:	BOS.5562
Historic Name:	Boston Wharf Company Building
Common Name:	
Address:	29-31 Sleeper St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	602669005
Year Constructed:	1915
Architect(s):	
Architectural Style(s):	Classical Revival
Use(s):	Undetermined; Warehouse
Significance:	Architecture; Industry
Area(s):	 BOS.CX: Fort Point Channel District BOS.WZ: Fort Point Channel Historic District BOS.ZG: Fort Point Channel Landmark District <="">
Designation(s):	Local Historic District (12/9/2008); Nat'l Register District (9/10/2004)

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Inventory No:	BOS.5563
Historic Name:	Boston Wharf Company Building
Common Name:	
Address:	35-37 Sleeper St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	602669092-206
Year Constructed:	1911
Architect(s):	
Architectural Style(s):	Classical Revival
Use(s):	Undetermined; Warehouse
Significance:	Architecture; Industry
Area(s):	 BOS.CX: Fort Point Channel District BOS.WZ: Fort Point Channel Historic District BOS.ZG: Fort Point Channel Landmark District <="">
Designation(s):	Local Historic District (12/9/2008); Nat'l Register District (9/10/2004)

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Inventory No:	BOS.5564
Historic Name:	United Shoe Machine Corporation
Common Name:	Boston Wharf Company Building
Address:	51 Sleeper St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	602670000
Year Constructed:	1929
Architect(s):	
Architectural Style(s):	Altered beyond recognition
Use(s):	Other Industrial; Undetermined
Significance:	Architecture; Industry
Area(s):	 BOS.CX: Fort Point Channel District BOS.WZ: Fort Point Channel Historic District BOS.ZG: Fort Point Channel Landmark District <="">
Designation(s):	Local Historic District (12/9/2008); Nat'l Register District (9/10/2004)

Digital Photo
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National Register of Historic Places

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US Post Office Garage [Image]

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Link will open in a new browser window
- URL:** <http://pdfhost.focus.nps.gov/docs/NRHP/Photos/86001378.pdf>
Link will open in a new browser window
- Publisher:** National Park Service
- Published:** 06/26/1986
- Access:** Public access
- Restrictions:** All Rights Reserved
- Format/Size:** Physical document with text, photos and map
- Language:** eng: English
- Note:** 135 A St.
- Item No.:** 86001378 NRIS (*National Register Information System*)
- Subject:** **ARCHITECTURE/ENGINEERING**
- Subject:** **ARCHITECTURE**
- Subject:** **INTERNATIONAL STYLE**
- Subject:** **BUILDING**
- Subject:** **1925-1949**

Keywords: Underwood,Gilbert Stanley;Grade & Volpe,Inc.;1940;1941

Place: MASSACHUSETTS -- Suffolk County -- South Boston

Record Number: 403342

Record Owner: National Register of Historic Places

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Last updated: 09/16/13

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Appendix E
Copy of BWSC Permit Application



**Boston Water and
Sewer Commission**
980 Harrison Avenue
Boston, MA 02119-2540

DEWATERING DISCHARGE PERMIT APPLICATION

OWNER / AUTHORIZED APPLICANT PROVIDE INFORMATION HERE:

Company Name: Lee Kennedy Co. Address: 122 Quincy Shore Drive, Quincy, MA 02171

Phone number: 617-825-6930 Fax number: 617-265-0815

Contact person name: Dan Lebiedz Title: Project Executive

Cell number: 617-825-6930 Email address: dlebiedz@leekennedy.com

Permit Request (check one): New Application Permit Extension Other (Specify): _____

Owner's Information (if different from above):

Owner of property being dewatered: FPC Hotel LLC

Owner's mailing address: 10 Morgan Drive, Suite 1A, Lebanon, NH Phone number: 603-643-2206

Location of Discharge & Proposed Treatment System(s):

Street number and name: 70 Sleeper Street Neighborhood South Boston

Discharge is to a: Sanitary Sewer Combined Sewer Storm Drain Other (specify): _____

Describe Proposed Pre-Treatment System(s): Sedimentation Tank and bag filters (if required)

BWSC Outfall No. SDO196 Receiving Waters Fort Point Channel

Temporary Discharges (Provide Anticipated Dates of Discharge): From _____ To _____

Groundwater Remediation Tank Removal/Installation Foundation Excavation
 Utility/Manhole Pumping Test Pipe Trench Excavation
 Accumulated Surface Water Hydrogeologic Testing Other _____

Permanent Discharges

Foundation Drainage Crawl Space/Footing Drain
 Accumulated Surface Water Non-contact/Uncontaminated Cooling
 Non-contact/Uncontaminated Process Other: _____

-
1. Attach a Site Plan showing the source of the discharge and the location of the point of discharge (i.e. the sewer pipe or catch basin). Include meter type, meter number, size, make and start reading. Note. All discharges to the Commission's sewer system will be assessed current sewer charges. *Refer to Figure 3 of the attached NPDES RGP Permit Application.*
 2. If discharging to a sanitary or combined sewer, attach a copy of MWRA's Sewer Use Discharge permit or application.
 3. If discharging to a separate storm drain, attach a copy of EPA's NPDES Permit or NOI application, or NPDES Permit exclusion letter for the discharge, as well as other relevant information. *Refer to copy of NPDES RGP Permit Application.*
 4. Dewatering Drainage Permit will be denied or revoked if applicant fails to obtain the necessary permits from MWRA or EPA.

Submit Completed Application to: Boston Water and Sewer Commission
Engineering Customer Services
980 Harrison Avenue, Boston, MA 02119
Attn: Francis M. McLaughlin, Manager Engineering Customer Services
E-mail: McLaughlinF@bwsc.org
Phone: 617-989-7208 Fax: 617-989-7716

BWSC Use Only: Date Received _____ Comments: _____

Appendix F
Laboratory Data Reports



ANALYTICAL REPORT

Lab Number:	L1315768
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Mark Balfe
Phone:	(617) 886-7304
Project Name:	SEAPORT SQUARE PARCEL A
Project Number:	34099-120
Report Date:	08/21/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1315768-01	HA-A4 (OW)	BOSTON	08/14/13 13:20

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/21/13

ORGANICS



VOLATILES



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

SAMPLE RESULTS

Lab ID:	L1315768-01	Date Collected:	08/14/13 13:20
Client ID:	HA-A4 (OW)	Date Received:	08/14/13
Sample Location:	BOSTON	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/20/13 14:56		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND	ug/l	3.0	--	1	
1,1-Dichloroethane	ND	ug/l	0.75	--	1	
Chloroform	ND	ug/l	0.75	--	1	
Carbon tetrachloride	ND	ug/l	0.50	--	1	
1,2-Dichloropropane	ND	ug/l	1.8	--	1	
Dibromochloromethane	ND	ug/l	0.50	--	1	
1,1,2-Trichloroethane	ND	ug/l	0.75	--	1	
Tetrachloroethene	ND	ug/l	0.50	--	1	
Chlorobenzene	ND	ug/l	0.50	--	1	
Trichlorofluoromethane	ND	ug/l	2.5	--	1	
1,2-Dichloroethane	ND	ug/l	0.50	--	1	
1,1,1-Trichloroethane	ND	ug/l	0.50	--	1	
Bromodichloromethane	ND	ug/l	0.50	--	1	
trans-1,3-Dichloropropene	ND	ug/l	0.50	--	1	
cis-1,3-Dichloropropene	ND	ug/l	0.50	--	1	
1,1-Dichloropropene	ND	ug/l	2.5	--	1	
Bromoform	ND	ug/l	2.0	--	1	
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	--	1	
Benzene	ND	ug/l	0.50	--	1	
Toluene	ND	ug/l	0.75	--	1	
Ethylbenzene	ND	ug/l	0.50	--	1	
Chloromethane	ND	ug/l	2.5	--	1	
Bromomethane	ND	ug/l	1.0	--	1	
Vinyl chloride	ND	ug/l	1.0	--	1	
Chloroethane	ND	ug/l	1.0	--	1	
1,1-Dichloroethene	ND	ug/l	0.50	--	1	
trans-1,2-Dichloroethene	ND	ug/l	0.75	--	1	
Trichloroethene	ND	ug/l	0.50	--	1	
1,2-Dichlorobenzene	ND	ug/l	2.5	--	1	
1,3-Dichlorobenzene	ND	ug/l	2.5	--	1	
1,4-Dichlorobenzene	ND	ug/l	2.5	--	1	



Project Name: SEAPORT SQUARE PARCEL A

Lab Number: L1315768

Project Number: 34099-120

Report Date: 08/21/13

SAMPLE RESULTS

Lab ID:	L1315768-01	Date Collected:	08/14/13 13:20
Client ID:	HA-A4 (OW)	Date Received:	08/14/13
Sample Location:	BOSTON	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND	ug/l	1.0	--	1	
p/m-Xylene	ND	ug/l	1.0	--	1	
o-Xylene	ND	ug/l	1.0	--	1	
Xylenes, Total	ND	ug/l	1.0	--	1	
cis-1,2-Dichloroethene	ND	ug/l	0.50	--	1	
Dibromomethane	ND	ug/l	5.0	--	1	
1,4-Dichlorobutane	ND	ug/l	5.0	--	1	
1,2,3-Trichloropropane	ND	ug/l	5.0	--	1	
Styrene	ND	ug/l	1.0	--	1	
Dichlorodifluoromethane	ND	ug/l	5.0	--	1	
Acetone	27	ug/l	5.0	--	1	
Carbon disulfide	ND	ug/l	5.0	--	1	
2-Butanone	ND	ug/l	5.0	--	1	
Vinyl acetate	ND	ug/l	5.0	--	1	
4-Methyl-2-pentanone	ND	ug/l	5.0	--	1	
2-Hexanone	ND	ug/l	5.0	--	1	
Ethyl methacrylate	ND	ug/l	5.0	--	1	
Acrylonitrile	ND	ug/l	5.0	--	1	
Bromochloromethane	ND	ug/l	2.5	--	1	
Tetrahydrofuran	ND	ug/l	5.0	--	1	
2,2-Dichloropropane	ND	ug/l	2.5	--	1	
1,2-Dibromoethane	ND	ug/l	2.0	--	1	
1,3-Dichloropropane	ND	ug/l	2.5	--	1	
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	--	1	
Bromobenzene	ND	ug/l	2.5	--	1	
n-Butylbenzene	ND	ug/l	0.50	--	1	
sec-Butylbenzene	ND	ug/l	0.50	--	1	
tert-Butylbenzene	ND	ug/l	2.5	--	1	
o-Chlorotoluene	ND	ug/l	2.5	--	1	
p-Chlorotoluene	ND	ug/l	2.5	--	1	
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5	--	1	
Hexachlorobutadiene	ND	ug/l	0.50	--	1	
Isopropylbenzene	ND	ug/l	0.50	--	1	
p-Isopropyltoluene	ND	ug/l	0.50	--	1	
Naphthalene	ND	ug/l	2.5	--	1	
n-Propylbenzene	ND	ug/l	0.50	--	1	
1,2,3-Trichlorobenzene	ND	ug/l	2.5	--	1	
1,2,4-Trichlorobenzene	ND	ug/l	2.5	--	1	
1,3,5-Trimethylbenzene	ND	ug/l	2.5	--	1	

Project Name: SEAPORT SQUARE PARCEL A

Lab Number: L1315768

Project Number: 34099-120

Report Date: 08/21/13

SAMPLE RESULTS

Lab ID:	L1315768-01	Date Collected:	08/14/13 13:20
Client ID:	HA-A4 (OW)	Date Received:	08/14/13
Sample Location:	BOSTON	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--	1
Ethyl ether	ND		ug/l	2.5	--	1
Tert-Butyl Alcohol	ND		ug/l	10	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	96		70-130

Project Name: SEAPORT SQUARE PARCEL A

Lab Number: L1315768

Project Number: 34099-120

Report Date: 08/21/13

SAMPLE RESULTS

Lab ID: L1315768-01
 Client ID: HA-A4 (OW)
 Sample Location: BOSTON
 Matrix: Water
 Analytical Method: 1,8260C-SIM(M)
 Analytical Date: 08/21/13 09:27
 Analyst: MM

Date Collected: 08/14/13 13:20
 Date Received: 08/14/13
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough Lab						
1,4-Dioxane	ND		ug/l	3.0	--	1

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

SAMPLE RESULTS

Lab ID:	L1315768-01	Date Collected:	08/14/13 13:20
Client ID:	HA-A4 (OW)	Date Received:	08/14/13
Sample Location:	BOSTON	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	08/19/13 11:00
Analytical Date:	08/19/13 13:26		
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Microextractables by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010	--	1

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 08/19/13 11:33
Analyst: SH

Extraction Date: 08/19/13 11:00

Parameter	Result	Qualifier	Units	RL	MDL
Microextractables by GC - Westborough Lab for sample(s): 01 Batch: WG629879-1					
1,2-Dibromoethane	ND		ug/l	0.010	--

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/13 13:07
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s):	01	Batch:	WG630283-3		
Methylene chloride	ND	ug/l	3.0	--	
1,1-Dichloroethane	ND	ug/l	0.75	--	
Chloroform	ND	ug/l	0.75	--	
Carbon tetrachloride	ND	ug/l	0.50	--	
1,2-Dichloropropane	ND	ug/l	1.8	--	
Dibromochloromethane	ND	ug/l	0.50	--	
1,1,2-Trichloroethane	ND	ug/l	0.75	--	
Tetrachloroethene	ND	ug/l	0.50	--	
Chlorobenzene	ND	ug/l	0.50	--	
Trichlorofluoromethane	ND	ug/l	2.5	--	
1,2-Dichloroethane	ND	ug/l	0.50	--	
1,1,1-Trichloroethane	ND	ug/l	0.50	--	
Bromodichloromethane	ND	ug/l	0.50	--	
trans-1,3-Dichloropropene	ND	ug/l	0.50	--	
cis-1,3-Dichloropropene	ND	ug/l	0.50	--	
1,1-Dichloropropene	ND	ug/l	2.5	--	
Bromoform	ND	ug/l	2.0	--	
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	--	
Benzene	ND	ug/l	0.50	--	
Toluene	ND	ug/l	0.75	--	
Ethylbenzene	ND	ug/l	0.50	--	
Chloromethane	ND	ug/l	2.5	--	
Bromomethane	ND	ug/l	1.0	--	
Vinyl chloride	ND	ug/l	1.0	--	
Chloroethane	ND	ug/l	1.0	--	
1,1-Dichloroethene	ND	ug/l	0.50	--	
trans-1,2-Dichloroethene	ND	ug/l	0.75	--	
Trichloroethene	ND	ug/l	0.50	--	
1,2-Dichlorobenzene	ND	ug/l	2.5	--	
1,3-Dichlorobenzene	ND	ug/l	2.5	--	
1,4-Dichlorobenzene	ND	ug/l	2.5	--	



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/13 13:07
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s):	01	Batch:	WG630283-3		
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
Xylenes, Total	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Dibromomethane	ND		ug/l	5.0	--
1,4-Dichlorobutane	ND		ug/l	5.0	--
1,2,3-Trichloropropane	ND		ug/l	5.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	5.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	5.0	--
Vinyl acetate	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Ethyl methacrylate	ND		ug/l	5.0	--
Acrylonitrile	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.5	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.5	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.5	--
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	--
Bromobenzene	ND		ug/l	2.5	--
n-Butylbenzene	ND		ug/l	0.50	--
sec-Butylbenzene	ND		ug/l	0.50	--
tert-Butylbenzene	ND		ug/l	2.5	--
o-Chlorotoluene	ND		ug/l	2.5	--
p-Chlorotoluene	ND		ug/l	2.5	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	--



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/20/13 13:07
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s):	01	Batch:	WG630283-3		
Hexachlorobutadiene	ND		ug/l	0.50	--
Isopropylbenzene	ND		ug/l	0.50	--
p-Isopropyltoluene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	2.5	--
n-Propylbenzene	ND		ug/l	0.50	--
1,2,3-Trichlorobenzene	ND		ug/l	2.5	--
1,2,4-Trichlorobenzene	ND		ug/l	2.5	--
1,3,5-Trimethylbenzene	ND		ug/l	2.5	--
1,2,4-Trimethylbenzene	ND		ug/l	2.5	--
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	--
Ethyl ether	ND		ug/l	2.5	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	95		70-130

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C-SIM(M)
Analytical Date: 08/21/13 06:15
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG630428-3					
1,4-Dioxane	ND		ug/l	3.0	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Microextractables by GC - Westborough Lab Associated sample(s): 01 Batch: WG629879-2								
1,2-Dibromoethane	125	-	-	-	70-130	-	-	20

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG630283-1 WG630283-2

Methylene chloride	113	101	70-130	11	20
1,1-Dichloroethane	117	101	70-130	15	20
Chloroform	115	99	70-130	15	20
Carbon tetrachloride	119	104	63-132	13	20
1,2-Dichloropropane	114	101	70-130	12	20
Dibromochloromethane	100	99	63-130	1	20
1,1,2-Trichloroethane	96	98	70-130	2	20
Tetrachloroethene	115	101	70-130	13	20
Chlorobenzene	110	99	75-130	11	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG630283-1 WG630283-2								
Trichlorofluoromethane	109		94		62-150	15		20
1,2-Dichloroethane	91		87		70-130	4		20
1,1,1-Trichloroethane	116		99		67-130	16		20
Bromodichloromethane	104		93		67-130	11		20
trans-1,3-Dichloropropene	104		102		70-130	2		20
cis-1,3-Dichloropropene	109		98		70-130	11		20
1,1-Dichloropropene	120		103		70-130	15		20
Bromoform	88		99		54-136	12		20
1,1,2,2-Tetrachloroethane	82		96		67-130	16		20
Benzene	122		105		70-130	15		25
Toluene	118		104		70-130	13		25
Ethylbenzene	112		99		70-130	12		20
Chloromethane	95		87		64-130	9		20
Bromomethane	44		39		39-139	12		20
Vinyl chloride	98		86		55-140	13		20
Chloroethane	100		86		55-138	15		20
1,1-Dichloroethene	127		107		61-145	17		25
trans-1,2-Dichloroethene	126		107		70-130	16		20
Trichloroethene	120		100		70-130	18		25
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	103		100		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG630283-1 WG630283-2								
1,4-Dichlorobenzene	98		97		70-130	1		20
Methyl tert butyl ether	103		104		63-130	1		20
p/m-Xylene	112		99		70-130	12		20
o-Xylene	109		96		70-130	13		20
cis-1,2-Dichloroethene	122		103		70-130	17		20
Dibromomethane	97		95		70-130	2		20
1,4-Dichlorobutane	86		96		70-130	11		20
1,2,3-Trichloropropane	87		103		64-130	17		20
Styrene	108		96		70-130	12		20
Dichlorodifluoromethane	98		84		36-147	15		20
Acetone	112		102		58-148	9		20
Carbon disulfide	123		104		51-130	17		20
2-Butanone	118		123		63-138	4		20
Vinyl acetate	94		97		70-130	3		20
4-Methyl-2-pentanone	81		90		59-130	11		20
2-Hexanone	82		91		57-130	10		20
Ethyl methacrylate	91		96		70-130	5		20
Acrylonitrile	96		110		70-130	14		20
Bromochloromethane	117		106		70-130	10		20
Tetrahydrofuran	82		94		58-130	14		20
2,2-Dichloropropane	127		108		63-133	16		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG630283-1 WG630283-2								
1,2-Dibromoethane	94		97		70-130	3		20
1,3-Dichloropropane	97		99		70-130	2		20
1,1,1,2-Tetrachloroethane	108		100		64-130	8		20
Bromobenzene	98		94		70-130	4		20
n-Butylbenzene	102		98		53-136	4		20
sec-Butylbenzene	105		100		70-130	5		20
tert-Butylbenzene	104		99		70-130	5		20
o-Chlorotoluene	106		101		70-130	5		20
p-Chlorotoluene	101		96		70-130	5		20
1,2-Dibromo-3-chloropropane	85		92		41-144	8		20
Hexachlorobutadiene	111		107		63-130	4		20
Isopropylbenzene	104		97		70-130	7		20
p-Isopropyltoluene	107		102		70-130	5		20
Naphthalene	84		106		70-130	23	Q	20
n-Propylbenzene	102		95		69-130	7		20
1,2,3-Trichlorobenzene	91		105		70-130	14		20
1,2,4-Trichlorobenzene	96		104		70-130	8		20
1,3,5-Trimethylbenzene	105		100		64-130	5		20
1,2,4-Trimethylbenzene	104		100		70-130	4		20
trans-1,4-Dichloro-2-butene	68	Q	79		70-130	15		20
Ethyl ether	111		107		59-134	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG630283-1 WG630283-2								
Tert-Butyl Alcohol	81		98		70-130	19		20
Tertiary-Amyl Methyl Ether	100		100		66-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	81		85		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	107		97		70-130
Dibromofluoromethane	96		98		70-130

Volatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG630428-1 WG630428-2

1,4-Dioxane	118		102		70-130	15		25
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Matrix Spike Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Microextractables by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629879-3 QC Sample: L1315767-01 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.25	0.322	129		-	-		70-130	-		20

INORGANICS & MISCELLANEOUS



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

SAMPLE RESULTS

Lab ID:	L1315768-01	Date Collected:	08/14/13 13:20
Client ID:	HA-A4 (OW)	Date Received:	08/14/13
Sample Location:	BOSTON	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	--	1	08/15/13 09:40	08/16/13 14:24	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	08/14/13 21:40	30,4500CL-D	DE
Phenolics, Total	ND		mg/l	0.03	--	1	08/15/13 09:45	08/15/13 13:20	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	--	1	08/14/13 21:20	08/14/13 21:59	30,3500CR-D	EL
Anions by Ion Chromatography - Westborough Lab										
Chloride	2110		mg/l	50.0	--	100	-	08/15/13 20:44	44,300.0	AU

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG629052-1									
Chromium, Hexavalent	ND	mg/l	0.010	--	1	08/14/13 21:20	08/14/13 21:58	30,3500CR-D	EL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG629053-1									
Chlorine, Total Residual	ND	mg/l	0.02	--	1	-	08/14/13 21:40	30,4500CL-D	DE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG629160-1									
Phenolics, Total	ND	mg/l	0.03	--	1	08/15/13 09:45	08/15/13 13:17	4,420.1	TE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG629163-1									
Cyanide, Total	ND	mg/l	0.005	--	1	08/15/13 09:40	08/16/13 14:09	30,4500CN-CE	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG629635-1									
Chloride	ND	mg/l	0.500	--	1	-	08/15/13 19:08	44,300.0	AU



Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG629052-2								
Chromium, Hexavalent	98	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG629053-2								
Chlorine, Total Residual	94	-	-	-	90-110	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG629160-2								
Phenolics, Total	120	-	-	-	70-130	-	-	-
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG629163-2								
Cyanide, Total	99	-	-	-	90-110	-	-	-
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG629635-2								
Chloride	103	-	-	-	90-110	-	-	-

Matrix Spike Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD RPD	Qual Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629052-4 QC Sample: L1315768-01 Client ID: HA-A4 (OW)												
Chromium, Hexavalent	ND	0.1	0.100	100	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629160-4 QC Sample: L1315768-01 Client ID: HA-A4 (OW)												
Phenolics, Total	ND	0.4	0.50	125	-	-	-	-	70-130	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629163-3 QC Sample: L1315764-01 Client ID: MS Sample												
Cyanide, Total	0.006	0.2	0.197	95	-	-	-	-	90-110	-	-	30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629635-3 QC Sample: L1315767-01 Client ID: MS Sample												
Chloride	961	200	1180	112	-	-	-	-	40-151	-	-	18

Lab Duplicate Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629052-3 QC Sample: L1315768-01 Client ID: HA-A4 (OW)						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629053-3 QC Sample: L1315768-01 Client ID: HA-A4 (OW)						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629160-3 QC Sample: L1315767-01 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629163-4 QC Sample: L1315768-01 Client ID: HA-A4 (OW)						
Cyanide, Total	ND	ND	mg/l	NC		30
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629635-4 QC Sample: L1315767-01 Client ID: DUP Sample						
Chloride	961	963.	mg/l	0		18

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1315768-01A	Vial HCl preserved	A	N/A	3.7	Y	Absent	8260(14)
L1315768-01B	Vial HCl preserved	A	N/A	3.7	Y	Absent	8260(14)
L1315768-01C	Vial HCl preserved	A	N/A	3.7	Y	Absent	8260(14)
L1315768-01D	Vial HCl preserved	A	N/A	3.7	Y	Absent	8260-SIM(14)
L1315768-01E	Vial HCl preserved	A	N/A	3.7	Y	Absent	8260-SIM(14)
L1315768-01F	Vial HCl preserved	A	N/A	3.7	Y	Absent	8260-SIM(14)
L1315768-01G	Vial Na2S2O3 preserved	A	N/A	3.7	Y	Absent	504(14)
L1315768-01H	Vial Na2S2O3 preserved	A	N/A	3.7	Y	Absent	504(14)
L1315768-01I	Plastic 250ml NaOH preserved	A	>12	3.7	Y	Absent	TCN-4500(14)
L1315768-01J	Plastic 500ml unpreserved	A	7	3.7	Y	Absent	CL-300(28),TRC-4500(1)
L1315768-01K	Plastic 500ml unpreserved	A	7	3.7	Y	Absent	HEXCR-3500(1)
L1315768-01L	Amber 1000ml H2SO4 preserved	A	<2	3.7	Y	Absent	TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

GLOSSARY

Acronyms

- EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

Data Qualifiers

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315768
Report Date: 08/21/13

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. **Organic Parameters:** EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. **Organic Parameters:** EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. **Organic Parameters:** 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. **Organic Parameters:** 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.).

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. **NELAP Accredited.**

Drinking Water (Organic Parameters: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commissson on Environmental Quality Certificate/Lab ID: T104704476. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500CI-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.



CHAIN OF CUSTODY

3.43

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: HALEY & ALDRICH

Address: 465 MEDFORD ST

~~CHARLESTOWN~~ MA 02129

Phone: (cr7) 886-7400

Fax:

Email: MCUFFETTI@HARVARD.EDU

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All **CAM** methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

15368 - 1 HA-A4(0ω)

Collection

8/14/13

15768 - 1 HA-A4(0w) 8/14/13 1320 GW CWS X X X X X X 12

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO. 01-01 (rev. 18-Jan-2010)

Page 36 of 36

Container Type	P	A	P	P	V	V	V			
Preservative	A	D	A	E	B	B	H			

Preservative A D A E B BA H

Relinquished By:	Date/Time	Received By:	Date/Time
C. Jones S. Sullivan M. Austin	8/14/13 15:00	M. Austin	8/14/13 16:45
	8/14/13 16:45	Mark	8/14/13 16:45
M. Austin	8/14/13 18:15	BG	8/14/13 18:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1315924
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Mark Balfe
Phone:	(617) 886-7304
Project Name:	SEAPORT SQUARE PARCEL A
Project Number:	34099-120
Report Date:	08/25/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1315924-01	HA-A4 (OW)	BOSTON	08/15/13 06:30

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Case Narrative (continued)

Sample Receipt

The sample was field filtered for Dissolved Metals.

Total Metals

L1315924-01 (HA-A4 (OW)) has elevated detection limits for all elements, with the exception of iron and mercury, due to the dilution required by matrix interferences encountered during analysis.

Dissolved Metals

L1315924-01(HA-A4 (OW)) has elevated detection limits for all elements, with the exception of iron and mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG630195-4 MS recovery, performed on L1315924-01 (HA-A4 (OW)), is below the acceptance criteria for antimony (49%) and silver (73%). A post digestion spike was performed with acceptable recoveries for antimony (99%) and silver (83%).

The WG630196-4 MS recovery, performed on L1315924-01 (HA-A4 (OW)), is below the acceptance criteria for iron (30%). A post digestion spike was performed with an acceptable recovery of 90%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Cynthia McQueen

Title: Technical Director/Representative

Date: 08/25/13

ORGANICS



SEMIVOLATILES



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

SAMPLE RESULTS

Lab ID:	L1315924-01	Date Collected:	08/15/13 06:30
Client ID:	HA-A4 (OW)	Date Received:	08/15/13
Sample Location:	BOSTON	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/17/13 11:26
Analytical Date:	08/23/13 19:21		
Analyst:	JC		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND	ug/l	20	--	--	1
1,2,4-Trichlorobenzene	ND	ug/l	5.0	--	--	1
Bis(2-chloroethyl)ether	ND	ug/l	2.0	--	--	1
1,2-Dichlorobenzene	ND	ug/l	2.0	--	--	1
1,3-Dichlorobenzene	ND	ug/l	2.0	--	--	1
1,4-Dichlorobenzene	ND	ug/l	2.0	--	--	1
3,3'-Dichlorobenzidine	ND	ug/l	5.0	--	--	1
2,4-Dinitrotoluene	ND	ug/l	5.0	--	--	1
2,6-Dinitrotoluene	ND	ug/l	5.0	--	--	1
Azobenzene	ND	ug/l	2.0	--	--	1
4-Chlorophenyl phenyl ether	ND	ug/l	2.0	--	--	1
4-Bromophenyl phenyl ether	ND	ug/l	2.0	--	--	1
Bis(2-chloroisopropyl)ether	ND	ug/l	2.0	--	--	1
Bis(2-chloroethoxy)methane	ND	ug/l	5.0	--	--	1
Hexachlorocyclopentadiene	ND	ug/l	20	--	--	1
Isophorone	ND	ug/l	5.0	--	--	1
Nitrobenzene	ND	ug/l	2.0	--	--	1
NDPA/DPA	ND	ug/l	2.0	--	--	1
Bis(2-ethylhexyl)phthalate	ND	ug/l	3.0	--	--	1
Butyl benzyl phthalate	ND	ug/l	5.0	--	--	1
Di-n-butylphthalate	ND	ug/l	5.0	--	--	1
Di-n-octylphthalate	ND	ug/l	5.0	--	--	1
Diethyl phthalate	ND	ug/l	5.0	--	--	1
Dimethyl phthalate	ND	ug/l	5.0	--	--	1
Aniline	ND	ug/l	2.0	--	--	1
4-Chloroaniline	ND	ug/l	5.0	--	--	1
2-Nitroaniline	ND	ug/l	5.0	--	--	1
3-Nitroaniline	ND	ug/l	5.0	--	--	1
4-Nitroaniline	ND	ug/l	5.0	--	--	1
Dibenzofuran	ND	ug/l	2.0	--	--	1
n-Nitrosodimethylamine	ND	ug/l	2.0	--	--	1



Project Name: SEAPORT SQUARE PARCEL A

Lab Number: L1315924

Project Number: 34099-120

Report Date: 08/25/13

SAMPLE RESULTS

Lab ID:	L1315924-01	Date Collected:	08/15/13 06:30
Client ID:	HA-A4 (OW)	Date Received:	08/15/13
Sample Location:	BOSTON	Field Prep:	See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	118		10-120
4-Terphenyl-d14	111		41-149

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

SAMPLE RESULTS

Lab ID:	L1315924-01	Date Collected:	08/15/13 06:30
Client ID:	HA-A4 (OW)	Date Received:	08/15/13
Sample Location:	BOSTON	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/17/13 11:24
Analytical Date:	08/19/13 23:53		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	--	1
2-Chloronaphthalene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.20	--	1
Hexachlorobutadiene	ND		ug/l	0.50	--	1
Naphthalene	ND		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	ND		ug/l	0.20	--	1
Benzo(b)fluoranthene	ND		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	ND		ug/l	0.20	--	1
Benzo(ghi)perylene	ND		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--	1
Pyrene	ND		ug/l	0.20	--	1
1-Methylnaphthalene	ND		ug/l	0.20	--	1
2-Methylnaphthalene	ND		ug/l	0.20	--	1
Pentachlorophenol	ND		ug/l	0.80	--	1
Hexachlorobenzene	ND		ug/l	0.80	--	1
Hexachloroethane	ND		ug/l	0.80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	106		15-120
2,4,6-Tribromophenol	142	Q	10-120
4-Terphenyl-d14	143		41-149



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/13 17:25
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 08/17/13 11:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s):	01		Batch:	WG629716-1	
Acenaphthene	ND		ug/l	2.0	--
Benzidine	ND		ug/l	20	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	2.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
2-Chloronaphthalene	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
Fluoranthene	ND		ug/l	2.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	2.0	--
Hexachlorocyclopentadiene	ND		ug/l	20	--
Hexachloroethane	ND		ug/l	2.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	2.0	--
Nitrobenzene	ND		ug/l	2.0	--
NDPA/DPA	ND		ug/l	2.0	--
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/13 17:25
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 08/17/13 11:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01				Batch: WG629716-1	
Dimethyl phthalate	ND		ug/l	5.0	--
Benzo(a)anthracene	ND		ug/l	2.0	--
Benzo(a)pyrene	ND		ug/l	2.0	--
Benzo(b)fluoranthene	ND		ug/l	2.0	--
Benzo(k)fluoranthene	ND		ug/l	2.0	--
Chrysene	ND		ug/l	2.0	--
Acenaphthylene	ND		ug/l	2.0	--
Anthracene	ND		ug/l	2.0	--
Benzo(ghi)perylene	ND		ug/l	2.0	--
Fluorene	ND		ug/l	2.0	--
Phenanthrene	ND		ug/l	2.0	--
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--
Pyrene	ND		ug/l	2.0	--
Biphenyl	ND		ug/l	2.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
1-Methylnaphthalene	ND		ug/l	2.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
2-Methylnaphthalene	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
p-Chloro-m-cresol	ND		ug/l	2.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/23/13 17:25
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 08/17/13 11:26

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG629716-1					
2,4-Dinitrophenol	ND		ug/l	20	--
4,6-Dinitro-o-cresol	ND		ug/l	10	--
Pentachlorophenol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	2.0	--
Carbazole	ND		ug/l	2.0	--
Pyridine	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	96		10-120
4-Terphenyl-d14	102		41-149

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/19/13 22:15
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 08/17/13 11:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01				Batch: WG629717-1	
Acenaphthene	ND		ug/l	0.20	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
1-Methylnaphthalene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--
Pentachlorophenol	ND		ug/l	0.80	--
Hexachlorobenzene	ND		ug/l	0.80	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis

Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/19/13 22:15
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 08/17/13 11:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG629717-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	131		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG629716-2 WG629716-3								
Acenaphthene	80		72		37-111	11		30
Benzidine	40		36		10-75	11		30
1,2,4-Trichlorobenzene	60		54		39-98	11		30
Hexachlorobenzene	113		105		40-140	7		30
Bis(2-chloroethyl)ether	80		68		40-140	16		30
2-Chloronaphthalene	74		68		40-140	8		30
1,2-Dichlorobenzene	62		53		40-140	16		30
1,3-Dichlorobenzene	60		51		40-140	16		30
1,4-Dichlorobenzene	60		52		36-97	14		30
3,3'-Dichlorobenzidine	99		94		40-140	5		30
2,4-Dinitrotoluene	117	Q	111	Q	24-96	5		30
2,6-Dinitrotoluene	108		104		40-140	4		30
Azobenzene	105		97		40-140	8		30
Fluoranthene	121		115		40-140	5		30
4-Chlorophenyl phenyl ether	94		85		40-140	10		30
4-Bromophenyl phenyl ether	109		103		40-140	6		30
Bis(2-chloroisopropyl)ether	83		72		40-140	14		30
Bis(2-chloroethoxy)methane	88		77		40-140	13		30
Hexachlorobutadiene	60		53		40-140	12		30
Hexachlorocyclopentadiene	45		42		40-140	7		30
Hexachloroethane	57		49		40-140	15		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG629716-2 WG629716-3								
Isophorone	101		90		40-140	12		30
Naphthalene	67		59		40-140	13		30
Nitrobenzene	87		76		40-140	13		30
NDPA/DPA	107		101		40-140	6		30
n-Nitrosodi-n-propylamine	98		86		29-132	13		30
Bis(2-ethylhexyl)phthalate	91		88		40-140	3		30
Butyl benzyl phthalate	125		120		40-140	4		30
Di-n-butylphthalate	126		122		40-140	3		30
Di-n-octylphthalate	102		97		40-140	5		30
Diethyl phthalate	112		106		40-140	6		30
Dimethyl phthalate	107		99		40-140	8		30
Benzo(a)anthracene	112		104		40-140	7		30
Benzo(a)pyrene	103		97		40-140	6		30
Benzo(b)fluoranthene	120		114		40-140	5		30
Benzo(k)fluoranthene	105		104		40-140	1		30
Chrysene	106		103		40-140	3		30
Acenaphthylene	94		88		45-123	7		30
Anthracene	114		111		40-140	3		30
Benzo(ghi)perylene	112		102		40-140	9		30
Fluorene	98		92		40-140	6		30
Phenanthrene	103		98		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG629716-2 WG629716-3								
Dibenzo(a,h)anthracene	114		107		40-140	6		30
Indeno(1,2,3-cd)pyrene	116		107		40-140	8		30
Pyrene	123		120		26-127	2		30
Biphenyl	69		61		40-140	12		30
Aniline	55		46		40-140	18		30
4-Chloroaniline	96		87		40-140	10		30
1-Methylnaphthalene	70		62		41-103	12		30
2-Nitroaniline	105		99		52-143	6		30
3-Nitroaniline	77		76		25-145	1		30
4-Nitroaniline	100		98		51-143	2		30
Dibenzofuran	87		79		40-140	10		30
2-Methylnaphthalene	70		64		40-140	9		30
n-Nitrosodimethylamine	54		46		22-74	16		30
2,4,6-Trichlorophenol	102		93		30-130	9		30
p-Chloro-m-cresol	105	Q	99	Q	23-97	6		30
2-Chlorophenol	85		73		27-123	15		30
2,4-Dichlorophenol	99		88		30-130	12		30
2,4-Dimethylphenol	94		81		30-130	15		30
2-Nitrophenol	91		80		30-130	13		30
4-Nitrophenol	60		56		10-80	7		30
2,4-Dinitrophenol	104		102		20-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG629716-2 WG629716-3								
4,6-Dinitro-o-cresol	110		109		20-164	1		30
Pentachlorophenol	120	Q	112	Q	9-103	7		30
Phenol	43		38		12-110	12		30
2-Methylphenol	83		72		30-130	14		30
3-Methylphenol/4-Methylphenol	79		70		30-130	12		30
2,4,5-Trichlorophenol	110		105		30-130	5		30
Benzoic Acid	48		48		10-164	0		30
Benzyl Alcohol	82		71		26-116	14		30
Carbazole	115		108		55-144	6		30
Pyridine	27		20		10-66	30		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		51		21-120
Phenol-d6	40		36		10-120
Nitrobenzene-d5	90		81		23-120
2-Fluorobiphenyl	86		79		15-120
2,4,6-Tribromophenol	126	Q	120		10-120
4-Terphenyl-d14	114		111		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG629717-2 WG629717-3								
Acenaphthene	92		88		37-111	4		40
2-Chloronaphthalene	84		82		40-140	2		40
Fluoranthene	122		114		40-140	7		40
Hexachlorobutadiene	72		69		40-140	4		40
Naphthalene	78		76		40-140	3		40
Benzo(a)anthracene	127		115		40-140	10		40
Benzo(a)pyrene	117		107		40-140	9		40
Benzo(b)fluoranthene	141	Q	117		40-140	19		40
Benzo(k)fluoranthene	116		120		40-140	3		40
Chrysene	113		105		40-140	7		40
Acenaphthylene	91		91		40-140	0		40
Anthracene	110		107		40-140	3		40
Benzo(ghi)perylene	95		88		40-140	8		40
Fluorene	113		109		40-140	4		40
Phenanthrene	103		102		40-140	1		40
Dibenzo(a,h)anthracene	93		90		40-140	3		40
Indeno(1,2,3-cd)Pyrene	99		93		40-140	6		40
Pyrene	115		107		26-127	7		40
1-Methylnaphthalene	78		75		40-140	4		40
2-Methylnaphthalene	76		73		40-140	4		40
Pentachlorophenol	110	Q	103		9-103	7		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG629717-2 WG629717-3								
Hexachlorobenzene	82		79		40-140	4		40
Hexachloroethane	71		68		40-140	4		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		51		21-120
Phenol-d6	32		34		10-120
Nitrobenzene-d5	82		86		23-120
2-Fluorobiphenyl	75		77		15-120
2,4,6-Tribromophenol	95		101		10-120
4-Terphenyl-d14	99		116		41-149

PCBS



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

SAMPLE RESULTS

Lab ID:	L1315924-01	Date Collected:	08/15/13 06:30
Client ID:	HA-A4 (OW)	Date Received:	08/15/13
Sample Location:	BOSTON	Field Prep:	See Narrative
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	08/17/13 18:13
Analytical Date:	08/19/13 13:59	Cleanup Method1:	EPA 3665A
Analyst:	JT	Cleanup Date1:	08/19/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/19/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.200	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	53		30-150
Decachlorobiphenyl	62		30-150

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis

Batch Quality Control

Analytical Method: 5,608
Analytical Date: 08/19/13 12:45
Analyst: JT

Extraction Method: EPA 608
Extraction Date: 08/17/13 18:13
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/19/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/19/13

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s):	01		Batch:	WG629758-1	
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	59		30-150
Decachlorobiphenyl	91		30-150

Matrix Spike Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629758-3 QC Sample: L1315772-01 Client ID: MS Sample												
Aroclor 1016	ND	1.11	0.854	77		-	-		40-140	-		50
Aroclor 1260	ND	1.11	0.796	72		-	-		40-140	-		50

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	62				30-150
Decachlorobiphenyl	75				30-150

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG629758-2								
Aroclor 1016	82	-	-	-	40-140	-	-	50
Aroclor 1260	89	-	-	-	40-140	-	-	50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	51	-	-	-	30-150
Decachlorobiphenyl	89	-	-	-	30-150

Lab Duplicate Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629758-4 QC Sample: L1315922-01 Client ID: DUP Sample						
Aroclor 1016	ND	ND	ug/l	NC		50
Aroclor 1221	ND	ND	ug/l	NC		50
Aroclor 1232	ND	ND	ug/l	NC		50
Aroclor 1242	ND	ND	ug/l	NC		50
Aroclor 1248	ND	ND	ug/l	NC		50
Aroclor 1254	ND	ND	ug/l	NC		50
Aroclor 1260	ND	ND	ug/l	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
2,4,5,6-Tetrachloro-m-xylene	65		61		30-150
Decachlorobiphenyl	72		66		30-150

METALS



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

SAMPLE RESULTS

Lab ID: L1315924-01 Date Collected: 08/15/13 06:30
Client ID: HA-A4 (OW) Date Received: 08/15/13
Sample Location: BOSTON Field Prep: See Narrative
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Westborough Lab

Antimony, Total	ND	mg/l	0.01000	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Arsenic, Total	0.01077	mg/l	0.01000	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Cadmium, Total	ND	mg/l	0.00200	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Chromium, Total	ND	mg/l	0.01000	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Copper, Total	ND	mg/l	0.01000	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Iron, Total	8.5	mg/l	0.05	--	1	08/20/13 09:57 08/20/13 16:34	EPA 3005A	19,200.7	TT
Lead, Total	ND	mg/l	0.00500	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Mercury, Total	ND	mg/l	0.0002	--	1	08/17/13 09:36 08/20/13 13:36	EPA 245.1	3,245.1	JH
Nickel, Total	0.00980	mg/l	0.00500	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Selenium, Total	ND	mg/l	0.0500	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Silver, Total	ND	mg/l	0.00400	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK
Zinc, Total	ND	mg/l	0.1000	--	10	08/20/13 09:57 08/20/13 17:28	EPA 3005A	1,6020A	AK

Dissolved Metals - Westborough Lab

Antimony, Dissolved	ND	mg/l	0.01000	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Arsenic, Dissolved	ND	mg/l	0.01000	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Cadmium, Dissolved	ND	mg/l	0.00200	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Chromium, Dissolved	ND	mg/l	0.01000	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Copper, Dissolved	ND	mg/l	0.01000	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Iron, Dissolved	2.2	mg/l	0.05	--	1	08/20/13 11:32 08/20/13 14:38	NA	19,200.7	TT
Lead, Dissolved	ND	mg/l	0.00500	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Mercury, Dissolved	ND	mg/l	0.0002	--	1	08/20/13 12:48 08/21/13 09:16	EPA 245.1	3,245.1	DR
Nickel, Dissolved	ND	mg/l	0.00500	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Selenium, Dissolved	ND	mg/l	0.0500	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Silver, Dissolved	ND	mg/l	0.00400	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK
Zinc, Dissolved	ND	mg/l	0.1000	--	10	08/20/13 11:32 08/20/13 16:32	NA	1,6020A	AK



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG629706-1									
Mercury, Total	ND	mg/l	0.0002	--	1	08/17/13 09:36	08/20/13 13:07	3,245.1	JH

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG630153-1									
Antimony, Total	ND	mg/l	0.00100	--	1	08/20/13 09:57	08/20/13 17:10	1,6020A	AK
Arsenic, Total	ND	mg/l	0.00100	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Cadmium, Total	ND	mg/l	0.00020	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Chromium, Total	ND	mg/l	0.00100	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Copper, Total	ND	mg/l	0.00100	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Lead, Total	ND	mg/l	0.00050	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Nickel, Total	ND	mg/l	0.00050	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Selenium, Total	ND	mg/l	0.00500	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK
Silver, Total	ND	mg/l	0.00040	--	1	08/20/13 09:57	08/20/13 17:10	1,6020A	AK
Zinc, Total	ND	mg/l	0.01000	--	1	08/20/13 09:57	08/20/13 17:00	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG630155-1									
Iron, Total	ND	mg/l	0.05	--	1	08/20/13 09:57	08/20/13 15:13	19,200.7	TT

Prep Information

Digestion Method: EPA 3005A



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG630189-1									
Mercury, Dissolved	ND	mg/l	0.0002	--	1	08/20/13 12:48	08/21/13 09:12	3,245.1	DR

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG630195-1									
Antimony, Dissolved	ND	mg/l	0.00100	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Arsenic, Dissolved	ND	mg/l	0.00100	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Cadmium, Dissolved	ND	mg/l	0.00020	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Chromium, Dissolved	ND	mg/l	0.00100	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Copper, Dissolved	ND	mg/l	0.00100	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Lead, Dissolved	ND	mg/l	0.00050	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Nickel, Dissolved	ND	mg/l	0.00050	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Selenium, Dissolved	ND	mg/l	0.00500	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Silver, Dissolved	ND	mg/l	0.00040	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK
Zinc, Dissolved	ND	mg/l	0.01000	--	1	08/20/13 11:32	08/20/13 16:15	1,6020A	AK

Prep Information

Digestion Method: NA

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG630196-1									
Iron, Dissolved	ND	mg/l	0.05	--	1	08/20/13 11:32	08/20/13 14:31	19,200.7	TT

Prep Information

Digestion Method: NA



Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG629706-2								
Mercury, Total	92	-	-	-	85-115	-	-	-
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG630153-2								
Antimony, Total	80	-	-	-	80-120	-	-	-
Arsenic, Total	100	-	-	-	80-120	-	-	-
Cadmium, Total	112	-	-	-	80-120	-	-	-
Chromium, Total	98	-	-	-	80-120	-	-	-
Copper, Total	103	-	-	-	80-120	-	-	-
Lead, Total	98	-	-	-	80-120	-	-	-
Nickel, Total	100	-	-	-	80-120	-	-	-
Selenium, Total	105	-	-	-	80-120	-	-	-
Silver, Total	111	-	-	-	80-120	-	-	-
Zinc, Total	106	-	-	-	80-120	-	-	-
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG630155-2								
Iron, Total	100	-	-	-	85-115	-	-	-
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG630189-2								
Mercury, Dissolved	104	-	-	-	85-115	-	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG630195-2					
Antimony, Dissolved	82	-	80-120	-	
Arsenic, Dissolved	100	-	80-120	-	
Cadmium, Dissolved	112	-	80-120	-	
Chromium, Dissolved	98	-	80-120	-	
Copper, Dissolved	102	-	80-120	-	
Lead, Dissolved	96	-	80-120	-	
Nickel, Dissolved	99	-	80-120	-	
Selenium, Dissolved	104	-	80-120	-	
Silver, Dissolved	101	-	80-120	-	
Zinc, Dissolved	108	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG630196-2					
Iron, Dissolved	99	-	85-115	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629706-4 QC Sample: L1315252-01 Client ID: MS Sample											
Mercury, Total	ND	0.005	0.0057	113	-	-	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630153-4 QC Sample: L1315922-01 Client ID: MS Sample											
Antimony, Total	ND	0.5	0.4931	99	-	-	-	-	80-120	-	20
Arsenic, Total	0.00621	0.12	0.1306	104	-	-	-	-	80-120	-	20
Cadmium, Total	ND	0.051	0.05232	102	-	-	-	-	80-120	-	20
Chromium, Total	ND	0.2	0.1915	96	-	-	-	-	80-120	-	20
Copper, Total	ND	0.25	0.2460	98	-	-	-	-	80-120	-	20
Lead, Total	ND	0.51	0.4944	97	-	-	-	-	80-120	-	20
Nickel, Total	ND	0.5	0.4792	96	-	-	-	-	80-120	-	20
Selenium, Total	ND	0.12	0.122	102	-	-	-	-	80-120	-	20
Silver, Total	ND	0.05	0.05503	110	-	-	-	-	80-120	-	20
Zinc, Total	ND	0.5	0.5133	103	-	-	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630155-4 QC Sample: L1315922-01 Client ID: MS Sample											
Iron, Total	1.1	1	2.0	90	-	-	-	-	75-125	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630189-4 QC Sample: L1315924-01 Client ID: HA-A4 (OW)											
Mercury, Dissolved	ND	0.005	0.0041	83	-	-	-	-	70-130	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits	
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630195-4 QC Sample: L1315924-01 Client ID: HA-A4 (OW)										
Antimony, Dissolved	ND	0.5	0.2434	49	Q	-	-	80-120	-	20
Arsenic, Dissolved	ND	0.12	0.1159	96		-	-	80-120	-	20
Cadmium, Dissolved	ND	0.051	0.05190	102		-	-	80-120	-	20
Chromium, Dissolved	ND	0.2	0.1837	92		-	-	80-120	-	20
Copper, Dissolved	ND	0.25	0.2375	95		-	-	80-120	-	20
Lead, Dissolved	ND	0.51	0.4949	97		-	-	80-120	-	20
Nickel, Dissolved	ND	0.5	0.4596	92		-	-	80-120	-	20
Selenium, Dissolved	ND	0.12	0.112	93		-	-	80-120	-	20
Silver, Dissolved	ND	0.05	0.03634	73	Q	-	-	80-120	-	20
Zinc, Dissolved	ND	0.5	0.4680	94		-	-	80-120	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630196-4 QC Sample: L1315924-01 Client ID: HA-A4 (OW)										
Iron, Dissolved	2.2	1	2.5	30	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629706-3 QC Sample: L1315252-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630153-3 QC Sample: L1315922-01 Client ID: DUP Sample						
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00621	0.00578	mg/l	7		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	ND	ND	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630155-3 QC Sample: L1315922-01 Client ID: DUP Sample						
Iron, Total	1.1	1.0	mg/l	10		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630189-3 QC Sample: L1315924-01 Client ID: HA-A4 (OW)						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630195-3 QC Sample: L1315924-01 Client ID: HA-A4 (OW)					
Antimony, Dissolved	ND	ND	mg/l	NC	20
Arsenic, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG630196-3 QC Sample: L1315924-01 Client ID: HA-A4 (OW)					
Iron, Dissolved	2.2	2.3	mg/l	4	20

INORGANICS & MISCELLANEOUS



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

SAMPLE RESULTS

Lab ID:	L1315924-01	Date Collected:	08/15/13 06:30
Client ID:	HA-A4 (OW)	Date Received:	08/15/13
Sample Location:	BOSTON	Field Prep:	See Narrative
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	110		mg/l	10	NA	2	-	08/16/13 10:30	30,2540D	DW
TPH	ND		mg/l	4.00	--	1	08/16/13 08:15	08/16/13 14:30	74,1664A	JO

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG629434-1									
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	08/16/13 10:30	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG629547-1									
TPH	ND	mg/l	4.00	--	1	08/16/13 08:15	08/16/13 14:30	74,1664A	JO



Lab Control Sample Analysis

Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	LCS	LCSD	%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual			
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG629547-2							
TPH	85	-	-	64-132	-	-	34

Matrix Spike Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629547-4 QC Sample: L1315835-01 Client ID: MS Sample												
TPH	ND	20.8	18.1	87	-	-	-	-	64-132	-	-	34

Lab Duplicate Analysis
Batch Quality Control

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629434-2 QC Sample: L1315798-01 Client ID: DUP Sample						
Solids, Total Suspended	130	120	mg/l	8		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG629547-3 QC Sample: L1315817-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1315924-01A	Amber 1000ml unpreserved	B	7	4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1315924-01B	Amber 1000ml unpreserved	B	7	4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1315924-01C	Amber 1000ml unpreserved	B	7	4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1315924-01D	Amber 1000ml unpreserved	B	7	4	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1315924-01E	Amber 1000ml Na2S2O3	B	7	4	Y	Absent	PCB-608(7)
L1315924-01F	Amber 1000ml Na2S2O3	B	7	4	Y	Absent	PCB-608(7)
L1315924-01G	Amber 1000ml HCl preserved	B	N/A	4	Y	Absent	TPH-1664(28)
L1315924-01H	Amber 1000ml HCl preserved	B	N/A	4	Y	Absent	TPH-1664(28)
L1315924-01I	Plastic 250ml HNO3 preserved	B	<2	4	Y	Absent	CU-6020S(180),FE-RI(180),SE-6020S(180),ZN-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),HG-R(28),SB-6020S(180),CD-6020S(180)
L1315924-01J	Plastic 250ml HNO3 preserved	B	<2	4	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L1315924-01K	Plastic 1000ml unpreserved	B	7	4	Y	Absent	TSS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

GLOSSARY

Acronyms

- EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

Data Qualifiers

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report



Project Name: SEAPORT SQUARE PARCEL A
Project Number: 34099-120

Lab Number: L1315924
Report Date: 08/25/13

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 2, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. **Organic Parameters:** Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). **Microbiology Parameters:** Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. **Organic Parameters:** PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. **Microbiology Parameters:** Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. **Organic Parameters:** PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. **Organic Parameters:** EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. **Organic Parameters:** EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. **Organic Parameters:** 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. **Organic Parameters:** 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. **Organic Parameters:** 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.).

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. **NELAP Accredited.**

Drinking Water (Organic Parameters: EPA 524.2: Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311, 1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A, 3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P, BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NJ-DEP.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commissson on Environmental Quality Certificate/Lab ID: T104704476. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. **NELAP Accredited.**

Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500CI-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

CHAIN OF CUSTODY

PAGE 1 OF 1

Serial No:08251321:46

1085
MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: HALEY ALDRICH

Address: 465 MEDFORD ST

CHARLESTOWN MA 02129

Phone: (617) 866-7400

Fax:

Email: MCUFFETT@HALEYALDRICH.COM

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample Matrix

Sampler's Initials

15924-01

HA-A4(ow)

8/15/13

6:30

GW

CAS

Date Rec'd in Lab: 8/15/13

ALPHA Job #: U1315924

Project Information

Project Name: SEAPORT SQUARE PARCEL A

Project Location: BOSTON

Project #: 34099-120

Project Manager: MARK BALFE

ALPHA Quote #:

Turn-Around Time

Standard

RUSH (only confirmed if pre-approved!)

Date Due: 8/21/13

Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client Info PO #:

Regulatory Requirements/Report Limits

State / Fed Program Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

- Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	PCBs - 608	Total	2f, A ₁ , S ₁ , C ₁ , C ₂ , C ₃ , C ₄ , C ₅ , C ₆ , C ₇ , C ₈ , C ₉ , C ₁₀ , C ₁₁ , C ₁₂ , C ₁₃ , C ₁₄ , C ₁₅ , C ₁₆ , C ₁₇ , C ₁₈ , C ₁₉ , C ₂₀ , C ₂₁ , C ₂₂ , C ₂₃ , C ₂₄ , C ₂₅ , C ₂₆ , C ₂₇ , C ₂₈ , C ₂₉ , C ₃₀ , C ₃₁ , C ₃₂ , C ₃₃ , C ₃₄ , C ₃₅ , C ₃₆ , C ₃₇ , C ₃₈ , C ₃₉ , C ₄₀ , C ₄₁ , C ₄₂ , C ₄₃ , C ₄₄ , C ₄₅ , C ₄₆ , C ₄₇ , C ₄₈ , C ₄₉ , C ₅₀ , C ₅₁ , C ₅₂ , C ₅₃ , C ₅₄ , C ₅₅ , C ₅₆ , C ₅₇ , C ₅₈ , C ₅₉ , C ₆₀ , C ₆₁ , C ₆₂ , C ₆₃ , C ₆₄ , C ₆₅ , C ₆₆ , C ₆₇ , C ₆₈ , C ₆₉ , C ₇₀ , C ₇₁ , C ₇₂ , C ₇₃ , C ₇₄ , C ₇₅ , C ₇₆ , C ₇₇ , C ₇₈ , C ₇₉ , C ₈₀ , C ₈₁ , C ₈₂ , C ₈₃ , C ₈₄ , C ₈₅ , C ₈₆ , C ₈₇ , C ₈₈ , C ₈₉ , C ₉₀ , C ₉₁ , C ₉₂ , C ₉₃ , C ₉₄ , C ₉₅ , C ₉₆ , C ₉₇ , C ₉₈ , C ₉₉ , C ₁₀₀	TPH - 1664	8270 - Sim	TSS	SAMPLE HANDLING		(Please specify below)
								11	

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type

A P P A A A A P

Preservative

H C C B A A A

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: CHRIS SULLIVAN/HAA Date/Time: 8/15/13 12:00
M. Curtis 8/15/13 16:30
J. Dowd 8/15/13 19:05

Received By: M. Curtis Date/Time: 8/15/13 16:30
J. Dowd 8/15/13 19:05



CHAIN OF CUSTODY

PAGE 1 OF 1

Serial No.08251321:46

ALPHA Job #: U1315924

WESTBORO, MA MANSFIELD, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: HALEY ALDRICH

Address: 465 MED FOOD ST

CHARLESTOWN MA 02129

Phone: (617) 866-7400

Fax:

Email: MCUFFETT@HALEYALDRICH.COM

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required , indicate in Sample Specific Comments which samples and what tests MS to be performed.

(Note: All **CAM** methods for inorganic analyses require MS every 20 soil samples)

per Mark Balfe NPDES criteria/methods--GMH 8/16/13

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
CARIS SULLIVAN HHA	8/15/13 12:00	M. Martin	8/15/13 16:30
M. Martin Par	8/15/13 16:30	J. Reed	8-15-13 16:30